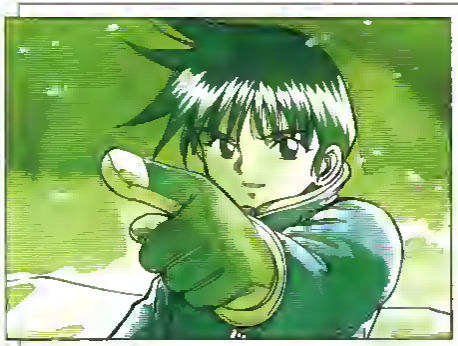

MONTHLY SHONEN MAGAZINE COMICS

Q.E.D.

……証明終了……

Quod Erat Demonstrandum

加藤元浩

Motohiro Katou

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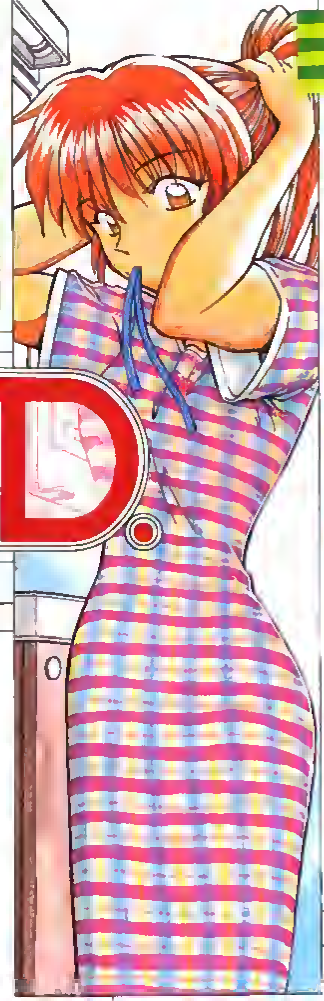

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Quod

Q.E.D.

……証明終了

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Erat

ブレイク・スルー

穢せた星図

Sou Touma

3

Demonstrandum

MOTOHIRO KATOU 加藤元浩

MONTHLY SHONEN MAGAZINE COMICS

講談社

Q.E.D. 1
ミネルヴァの梟
髪の檻
Q.E.D. 2
八部の宝
ロスト・ロワイヤル
Q.E.D. 3
ブレイク・スルー
視せた星図

コミックス第3巻、お買い上げありがとうございます。

本巻収録「ブレイク・スルー」は謎の多い鞭馬君の過去の秘密がかいま見えるお話です。

「視せた星図」は今までで一番悲しい話だと思って描きました。登場人物達のそれぞれの想いを感じていただければ嬉しいです。

加藤元浩

カバーデザイン／朝倉健司

Q.E.D. 3

証明終了

KCGM67-9

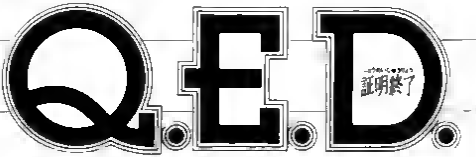
Q.E.D.
証明終了
3

加藤元浩

加藤元浩 講談社

MONTHLY SHONEN MAGAZINE COMICS

I solve every case
based on clues and evidence



3

加藤元浩
MOTOHIRO KATOU

contents

Breakthrough...6

The Fading of Star Map...78

CHARACTERS

燈馬のクラスメイト。刑事を父に持つ。男勝りの行動力と、脳天気なまでの明るさがウリの、健康優良女子高生。

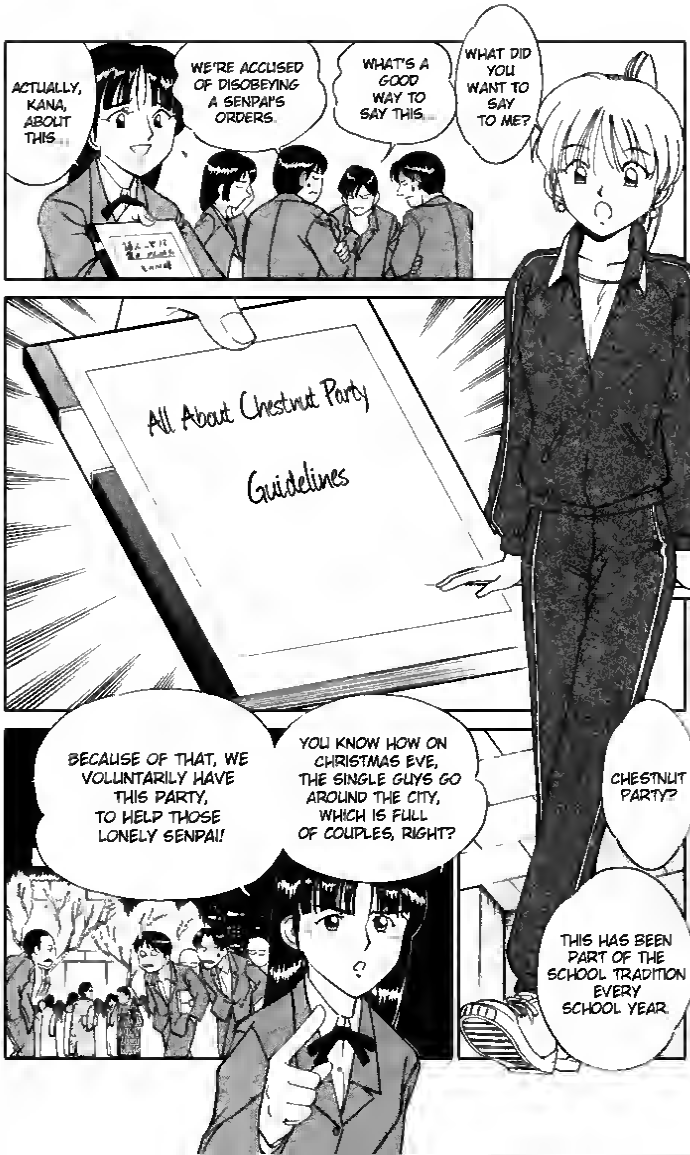
マサチューセッツ工科大学を15歳にして卒業、日本の高校に再入学した超天才児。多方面に豊富な知識を有する反面、人間の感情には疎い。

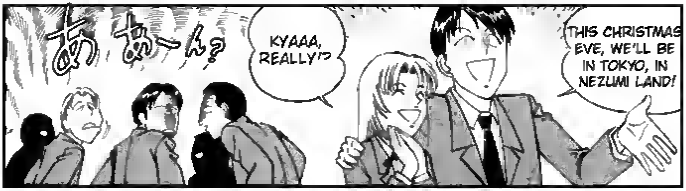
証明終了

RIP
OUT
BOSTON, MASSA-CHUSETTS, USA
RIP
RIP
S.TOMA

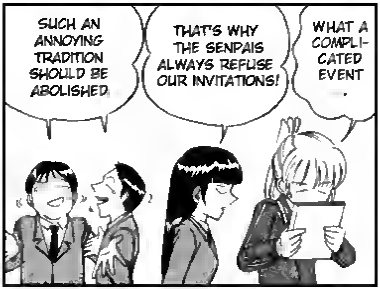
One Year Later, Tokyo, December
BREAK THROUGH

WAH!!
SNOW!!
LOOK AT THAT!
WAA! REAL SNOW!!
MMMM...
MMMM...
THAT IDIOT ...
LOOK AT TOUMA- SAN, STILL ON THE ROOF EVEN WHEN IT'S THIS COLD.
JUST LIKE A KID, GETTING ALL EXCITED OVER SOME SNOW.
THAT MIT GRADUATE GENIUS IS REALLY A WEIRDO, HUH?


ACTUALLY, KANA, ABOUT THIS...
WE'RE ACCUSED OF DISOBEYING A SENPAI'S ORDERS.
WHAT'S A GOOD WAY TO SAY THIS...
WHAT DID YOU WANT TO SAY TO ME?
All About Chestnut Party
Guidelines
CHESTNUT PARTY?
THIS HAS BEEN PART OF THE SCHOOL TRADITION EVERY SCHOOL YEAR.
YOU KNOW HOW ON CHRISTMAS EVE, THE SINGLE GUYS GO AROUND THE CITY, WHICH IS FULL OF COUPLES, RIGHT?
BECAUSE OF THAT, WE VOLUNTARILY HAVE THIS PARTY, TO HELP THOSE LONELY SENPAI!

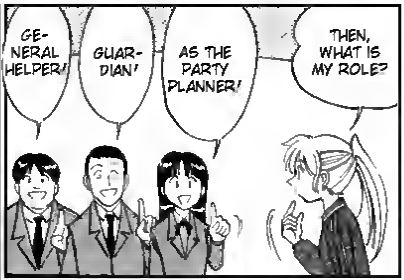

KYAAA, REALLY!?
THIS CHRISTMAS EVE, WE'LL BE IN TOKYO, IN NEZUMI LAND!

YEAH...
WE CAN'T LET A RUCKUS LIKE THAT HAPPEN IN TOWN.
That's why don't be vulgar!!
HOW DARE YOU SAY SUCH LEWD THINGS IN THIS SACRED PLACE!?


SUCH AN ANNOYING TRADITION SHOULD BE ABOLISHED
THAT'S WHY THE SENPAIS ALWAYS REFUSE OUR INVITATIONS!
WHAT A COMPLI-CATED EVENT.

THAT'S BECAUSE THE GUY WHO HAD THE IDEA FOR IT SAID "JAPANESE SHOULD EAT CHESTNUT YOKAN*, NOT CAKE!"
BUT, WHY IS IT A "CHESTNUT PARTY"?

BECAUSE NO ONE DARES REFUSE WHEN KANA ORDERS THEM TO DO SOMETHING
EEH!? WHY ME?
I DON'T WANT TO!!


GE-NERAL HELPER!
GUAR-DIAN!
AS THE PARTY PLANNER!
THEN, WHAT IS MY ROLE?

*YOKAN = JELLY

WHO'S THE GUY!?
THAT'S WHY YOU REFUSED!?
WOW, CAN IT BE THAT YOU HAVE A PLAN WITH SOMEONE ON CHRISTMAS EVE?
MIZUHARA-SAN!
MIZUHARA-SAN!
WHEN THERE'S ENOUGH SNOW, LET'S MAKE A SNOWMAN!
THEN, YOU'LL DO IT?
WE'LL MAKE OURSELVES A HUGE SNOWMAN ...!!
T that's not true!!
SORRY FOR DISTURBING YOU
OOH, TOUMA-SAN?

COME HERE SENSEI!!!
I'M GONNA SMACK THAT IDIOT!!
WE'LL TELL THE OTHERS.
ALL THE IMPORTANT THINGS ARE IN THAT BOOK.
AH, MIZUHARA-SAN! PLEASE HELP!
WE NEED A TEACHER WHO IS GOOD AT ENGLISH.
WHAT'S THE RUSH?
Let's say that the length of your stride is a, and b is the width of the cupboard,
From here to the cupboard, we'll use the equation for I.
RIGHT NOW, ON THE GROUND FLOOR, THERE'S A DISTURBANCE WITH SOME FOREIGNERS
WHAT IS IT?
OKAY!
C'MON, HURRY UP!
?
W, WAIT A MINUTE!

From here we'll try to use Archimedes' formula,
Since the natural number solutions from the equation for n are unbounded, we'll use the minimum.
This means that the distance l in this equation ...
WHO'RE THOSE FOREIGNERS?
WHAT HAPPENED?
EXCUSE ME
I DON'T KNOW, THEY SUDDENLY STARTED WRITING MATHEMATICAL FORMULAS
WHO ARE THOSE TWO?

I'M SORRY.
WHEN THIS HAPPENS, LOKI IS ALREADY IN HIS OWN WORLD ...
What are you doing?
WHY DID YOU COME TO THE SCHOOL?
HA HA HA... SORRY.
I WAS TRYING TO EXPLAIN THE DIFFERENCE BETWEEN EVA'S STRIDE WHEN SHE'S WALKING IN HALLWAY WITH THE CUPBOARD'S WIDTH USING MATHEMATICS.
HIS JAPANESE IS GOOD
AAH!!
SORRY, IT'LL BE ALL DONE SOON" WE'RE ACTUALLY LOOKING FOR SOMEONE . .
THAT'S NOT THE PROBLEM HERE!!

L+B-N'A>L(N
≧0
Q.E.D
THIS IS THE FINAL CONCLUSION
THEN BY APPLYING THE FIRST EQUATION...
B>A
SRET
BECAUSE THE WIDTH OF THE CUPBOARD IS LARGER THAN THE STRIDE'S LENGTH, SO WE USE THIS EQUATION
ISN'T THAT RIGHT, LOKI?
TOUMA'S ACQUAINTANCE?
I REALLY CAN'T BELIEVE IT...
EVA, IT'S BEEN A LONG TIME!
LUCKY WE CAN FINALLY MEET...
TOUMA!! WE'VE BEEN LOOKING FOR YOU!!

YOU'RE FRIENDS OF TOUMA-KUN FROM MIT?
THAT'S RIGHT.
THIS IS EVA SCOTT, FROM THE INFORMATICS DEPARTMENT.
THEN LOKI, HIS REAL NAME IS SYD GREEN BUT EVERYBODY CALLS HIM LOKI..
FROM THE MATHEMATICS DEPARTMENT.
WHY IS HE CALLED LOKI?
UM.. IT'S TAKEN FROM THE NAME OF THE GOD IN THE NORSE MYTHOLOGY.
DAMN! NOT ONLY HAVEN'T YOU SENT ME ANY MAIL.
SINCE WHEN DID YOU GET A GIRLFRIEND THIS CUTE?

THAT'S BECAUSE ...
PEOPLE MAY MISUNDER-STAND ...
EH?
AREN'T YOU?
NO LOKI! MIZUHARA-SAN DOESN'T LIKE TO BE CALLED THAT!
TOUMA ...
WE WERE TRYING TO FIND YOU!!
DAMMIT! YOU JUST SIGNED UP AND SUDDENLY DISAPPEARED,
AND THEN THAT HAPPENED ...
ALL OUR FRIENDS AND LECTURERS THOUGHT THAT TOUMA LEFT THAT THING IN THE RESEARCH LAB.
WHAT HAPPE-NED?
WE'RE REALLY SURPRISED WHEN YOU SUDDENLY LEFT COLLEGE

THERE WAS AN IDIOT,
WHO THREW TOUMA'S THESIS INTO THE RIVER.
THAT IMPORTANT THESIS WAS SUPPOSED TO BE KEPT IN THE RESEARCH LAB,
IT WAS THROWN INTO THE CHARLES RIVER JUST OUTSIDE THE CAMPUS, AND EVEN THE BACK-UP DATA IN THE COMPUTER WAS ERASED...
TOUMA IS THE ONLY GRADUATE THAT HASN'T SUBMITTED HIS THESIS
EVEN THOUGH HE WORKED HARD ON IT FOR A YEAR.
HOW CRUEL ...
IS THAT TRUE!? WHO'S ...
STOP THIS CONVERSATION ...

BY THE WAY, WHAT BRINGS YOU TO JAPAN?
LET IT GO ...
IT'S OVER ...
OH YEAH, THERE'S SOMETHING I WANT TO SHOW YOU
I HAVE SOME BUSINESS WITH A BANK ABOUT AN INVESTMENT, SO I THOUGHT I SHOULD SEE YOU WHILE I'M HERE
WELL, EVA RECEIVED A SAMPLE OF A COMPUTER VIRUS FOUND IN JAPAN...
I'M GOING TO GIVE THESE TO MY GIRLFRIENDS ON CHRISTMAS
WAAA!! ARE THESE REAL PEARL NECKLACES!? THERE ARE EVEN SIX OF THEM...
HERE THEY ARE!!

FOR KATHY!
ANNETTE, OLIVIA, AND ANOTHER ONE .
SO MANY!?
NOT EVEN THIS IS ENOUGH FOR SHERRY, CHRIS AND ROSA,
YOU MUST BE REALLY RICH, TO BE ABLE TO BUY THESE NECKLACES ...
EH?
I'M RICH!? YOU'RE KIDDING ME!!
WHAT IS IT MIZUHARA?
maybe Eva likes Loki
LOOK! LOOK! IT STUCK
IF THIS GENIUS GOT SERIOUS, HE COULD BE A BILLIONAIRE!!
IF IT'S MONEY, TOUMA COULD HAVE MORE IF HE PATENTED HIS PROGRAMS!
STOP THAT!!
HUH!?

Massachusetts Institute of Technology, one year ago.
So even the backup data is missing?
Yes sir, it seems that everything is erased ...
So you don't want to continue it?
yes ...
Under all circumstances our university has always been successful in making breakthroughs.
That is this university's mission.
Rabi, Purcell, Shockley, Weinberg, Modigliani, Alvarez, Richter, Schrieffer, Tonegawa!
And there are many other Nobel Laureates, themselves founders of world-renowned technological institutions, who graduated from MIT...

Radar, nuclear, computer, space exploration ...
We have made many breakthroughs in various things involving the government as well as companies.
And all that have brought us glory and wealth to this day.
If you don't want to continue this, it means the end,
Do you under-stand?
Yes.
Many people want to continue their research in this university
We regret that many will lose the chance to fully explore your genius, but we can't treat you differently.
Yes ...
Excuse me.
Hey, have you heard that gossip?
Ah, you mean who threw away Touma's thesis?

Maybe Loki is the one who did it,
?
Because brilliance will bring tragedy between the two of them!
Before Touma appeared, the nickname of 'genius' belonged to Loki
Obviously, Touma is definitely special! His brilliance was a talent from birth.
How bad for him ...
Is this the wrath of a king, furious that his throne was usurped?
Touma is the one who got it bad! Betrayed by his good friend.
Are they gonna find the culprit inside the campus?
Why not?
KNOCK KNOCK
Excuse me.
What is it?
Have you found a solution?

That's all I wanted to say.
It's me who destroyed it.
....
I'm sorry ...
Is that so?
Now get out!
I understand.
Mizuhara Residence.
So you met your ex at the station?
I didn't mean to! He suddenly greeted me!!
SAI
多少暴れても怒られない特集

HE'S HEARTLESS AND UNTRUSTWORTHY! THAT'S WHY WE BROKE UP!!
HUMM...
Green
NOW IT'S HARD TO KNOW WHO'S GONNA COME.
THEY ALL HAVE THEIR OWN REASONS!
AND WILL COME TO THE PARTY?
SO THAT'S WHY ERIKO IS ALONE,
THAT'S RIGHT! BECAUSE I'M WON'T BE COMING NEXT YEAR!!
I'M LISTENING,
KANA! ARE YOU LISTENING!?
HE SAID IT WITH AN UNUSUAL TONE...
DID HE WANT TO LEAVE HIS THESIS...?
STOP THIS CONVERSATION
THIS SUCKS! WHY DO I HAVE TO DO ALL THESE?

IS THERE SOMETHING FUNNY ON RADIO?
GYA HA HA HA!!
WHAT'S THE MATTER?
CHRISTMAS GIFT FOR YOU.
THE WINTER HOLIDAY IS COMING UP,
IS HE GOING BACK TO AMERICA FOR CHRISTMAS?
OR MAYBE GOING ON A DATE WITH SOMEONE
RRRR!
IF HE STILL WANTS TO PURSUE ACADEMICS THEN WHY IS HE STUDYING HERE?
OH, YEAH
OH NO! THIS IS OUTRAGEOUS!!
HELLO!! THIS IS TOUMA!!
?
MIZUHARA HERE!
YES,

LOWER THE VOLUME!!
BE QUIET! I CAN'T HEAR ANYTHING!!
OOH... CALLING YOUR GIRLFRIEND HUH?
Listen!!
HE HE HE... RELAX, I CAN'T HEAR ANYTHING.
ACTUALLY... UM... CAN WE MEET EACH OTHER THIS SATURDAY?
Listen closely!
I've discovered a new way to solve this problem,
We don't understand a thing.
He's too much of a genius.
I'm sorry.
Ha ha... For me your explanation is too complicated,
Listen up!!
Everyone!!

Listen!!
No! I've discovered an incredible idea!!
Hey!! Listen up!!
Lok!!! We don't get what you're talking about.
Because of this, the graph has a symmetrical shape...
then change the equation!!
In this flow-chart the algorithm that Eva and I made is used...
Here's the main idea!!
Your explanation as a math student is too difficult!
hey, hey!
Maybe someday you can get the Fields Medal.*
Keep it up!
*HTTP://EN.WIKIPEDIA.ORG/WIKI/FIELDS_MEDAL

There's nothing else we can do, Loki...
Let's perfect this software together.
They're all the same!
Damn it!!
Together you say!? Isn't your job only to realize my idea in program form!!
How dare you say something like that!!
Loki
Sorry ...
You think you can understand what goes inside my brain!?
Answer me, Eva!!

I didn't mean to say that to my partner ...
I'm sorry.
No, I'm the one who should be sorry ...
....
Is it over?
Huh?
yes.
Let's have lunch, it's on me.
This is not a playground for kids.
I'm a student here.
The rest of the symmetrical graph?

With the algorithm that Loki made, I've divided this into three parts.
Hey! that's my nickname!
Look at this, Loki!
Maybe there's still a change that I haven't analyzed yet.
chaos!?
strange attractor!?
Who are you really!?

WE'RE GOING TO GO AROUND TOKYO WITH THIS!?
A LIMOU-SINE!!
SO, THIS IS WHY YOU TOLD ME TO DRESS FORMALLY !?
WELL, I'M NOT REALLY FAMILIAR WITH THIS TOWN
DO YOU PREFER A PINK CADILLAC?
OKAY THEN, I'LL CONTACT THE TANK RENTAL PLACE
HURRY!!
BEFORE A JAPAN-AMERICA WAR STARTS!!

DUH, IT'S THE END OF THE YEAR, NO WONDER IT'S CROWDED.
LOOKS LIKE WE'RE THE CENTER OF ATTENTION
WHO'S THAT? CELEBRITIES?
OKAY, MIZUHARA! LET'S USE QUIZZES TO AVOID BOREDOM.
QUIZ?
WHAT'S THE NUMBER THAT WHEN FLIPPED OVER IS 1.5 TIMES ITS VALUE?
PIECE OF CAKE! 6, RIGHT!
I'm good at this thing!
TURN IT UPSIDE DOWN TO MAKE IT 9
GREAT !!
NEXT, SECOND QUESTION !!
THERE'S A ONE METER HIGH TREE,
IN THE FIRST YEAR ITS HEIGHT IS INCREASED BY ½ METER, IN THE SECOND YEAR BY ¼ METER. ITS YEARLY GROWTH IS HALF THE GROWTH OF LAST YEAR
1/4
1/2
1m
HOW HIGH WILL THE TREE BE AFTER 1000 YEARS?

YOU ARE NOT ALLOWED TO ASK TOUMA
1000 YEARS? IT MUST BE REALLY TALL...
HE HE HE... GO AHEAD!
I HAVE A QUESTION TOO!
WAIT! IT'S NOT FAIR IF IT'S JUST ME
WHAT GETS SMALLER AS ITS HEIGHT INCREASES?
SMALLER AS ITS HEIGHT INCREASES?
HMM.. IN 1000 YEARS, ½, ¼, ..
WHO SAID IT HAD TO BE MATH?
W-WAIT! THAT'S A MATH PROBLEM?
EH?

A BIG GATE...
WOW, IT'S PACKED WITH PEOPLE!
WHAT A HUGE PAPER LANTERN.
GETTING INTO THIS MESS, AREN'T WE RECKLESS?
JUST BACK FROM A WEDDING?
IT'S SAID THAT THE SMOKE WILL CLING TO YOUR AILMENTS AND HEAL THEM.*
IS THAT SO?
NOO!!
OR SMELLING A SWEET SCENT...
FUMIGATING GERMS OUT OF THEIR HAIR
INCENSE BURNING
EH, WHAT'S THAT?

* A RITUAL IN SENSOJI TEMPLE
HTTP://WWW.CHINATOWNCONNECTION.COM/SENSOJI-TEMPLE-TOKYO.HTM

THEY'RE BOTH REALLY CLOSE, JUST LIKE BROTHERS, HUH?
ME TOO!!
I WANT TO TRY IT!
LOKI LOST HIS MOTIVATION WHEN TOUMA WAS GONE
HARD TO BELIEVE, ISN'T IT?
SO HE WASN'T CHEERFUL BEFORE?
someone like that?
EH?
THANK GOODNESS WE CAME TO JAPAN, LOKI'S BECOME CHEERFUL AGAIN
TOUMA IS THE ONLY FRIEND THAT UNDERSTANDS HIM...
FOR ABOUT A MONTH HE DIDN'T SPEAK TO ANYONE..
I don't understand Japanese
THEY'RE BOTH IDIOTS

ACTUALLY, AT THAT TIME GOSSIP SPREAD THAT LOKI WAS THE ONE THAT THREW TOUMA'S THESIS AWAY...
BUT TOUMA ADMITTED THAT HE'S THE ONE WHO DID IT,
AS IF HE WANTED TO PROTECT LOKI...
THAT'S ...!
IN THE END THE IDENTITY OF THE CULPRIT IS STILL UNKNOWN
WHO'S THE ONE THAT DID IT...

WHY WOULD SOMEONE DO SUCH A THING...?
NOBODY KNOWS!!
COME ON, SO WHAT'S THE HEIGHT OF THE TREE AFTER 1000 YEARS?
WAIT A MINUTE.
GIVE UP?

I KNOW! IT'S 2 METERS, ISN'T IT?
TO BE PRECISE, IT'S 2 METER MINUS (½)^1000 METERS, ROUNDED UP TO 2 METERS!
1/2
1/4
1/8
1/16
1/32
SO AFTER 1000 YEARS THE TREE WILL BE TWO METERS HIGH
SHEESH, YOU'RE NO FUN!
LOKI, DON'T LISTEN TO THAT GOSSIP!
WHAT GOSSIP?
EVEN THOUGH I WANTED TO MAKE THAT RIDDLE THE LAST RIDDLE BEFORE WE PARTED.
ABOUT YOU THROWING AWAY MY THESIS...
THEN WHY DID YOU SAY THAT YOU'RE THE CULPRIT?

DO YOU MEAN TO PROTECT ME...
BECAUSE YOU THINK THAT I DID IT?
IF WE CONTINUE THIS CONVERSATION...
THERE WILL BE AN UNPLEASANT FAREWELL.

LOKI, WHY DO YOU LIKE MATH?
EH?
BECAUSE IT'S A BIT WEIRD FOR SOMEONE LIKE YOU...
THIRD QUESTION!
EH?
WHICH ONE'S HEAVIER? A 100 KGS OF IRON OR 100 KGS OF COTTON?
IN THAT CASE, WHICH ONE IS LIGHTER IF IT FALLS ON YOUR HEAD?
EH?
THAT'S A QUESTION FOR A GRADE-SCHOOLER!
THEY'RE BOTH WEIGH 100 KGS SO THEIR WEIGHT IS EQUAL! EASY!
SURELY COTTON... THEY BOTH WEIGH 100 KGS...
EH?
SO THAT'S TOO EASY, HUH?
THAT'S THE REASON WHY I LIKE MATH.
CHOOSING WHICH ONE IS THE BEST...

BUT ONCE IT FINALLY GOES IN, IT WILL FEEL REALLY GREAT.
WHEN YOUNG, MAY BE DIFFICULT TO ENTER..
HERE'S A STRANGE MATH PROBLEM: THE ENTRY IS TIGHT, BUT INSIDE IS WIDE.
SHUT UP!!
WHAT'S THE JOKE?
KIDDING! KID-DING!!
LOKI!!
THAT'S RIGHT
HUH! IF IT'S YOU, YOU CAN ANSWER RIGHT AWAY. IT'S NO FUN!
LOKI, GIVE ME A QUESTION TOO PLEASE
WHEN I'M IN A GOOD MOOD,
I'LL ASK YOU ONE QUESTION.

EVA!! ARE YOU OKAY!?
I DON'T LIKE HIGH PLACES! I'LL JUST WAIT IN THE CAR
I DON'T WANT TO GO AROUND IN A DRESS LIKE THIS. I'LL JUST WAIT HERE WITH EVA.

PLEASE TAKE CARE OF THIS.
THEN I'LL GO UP WITH TOUMA
ALRIGHTY THEN
OK!
PLEASE
LET'S GO!

WOW, IT'S HIGHER THAN THE SCHOOL ROOF!!
WELL, IN ANY CASE I..
HEH! SO YOU LIKE HIGH PLACES, HUH?
LOKI DOESN'T LIKE IT?
IT'S OKAY, COME ON!
WHAT ?
HEY, COME HERE FOR A SEC
ARE THEY GONNA BE OKAY...?

THAT MEANS TOUMA-KUN THINKS THAT LOKI IS THE CULPRIT.
HUH?
TO PROTECT LOKI, TOUMA-KUN ADMITTED THAT HE'S THE ONE WHO THREW AWAY HIS THESIS...
EVA SAID...
ARE WE ALLOWED TO GO HERE?
IT'S OKAY IF YOU DON'T GET CAUGHT!
LOKI REALLY HATES TOUMA-KUN!!
IF LOKI IS REALLY THE ONE WHO DID IT...
HURRY UP!
THAT'S RIGHT! THEY CAN'T BE LEFT ALONE!!
MIZUHARA -SAN...
MAYBE IT'S STILL NOT TOO LATE...
KLEK

WHERE ARE YOU GOING?
UM.. ARE THE TWO OF THEM GONNA BE OKAY?
DON'T WORRY,
DON'T LET THE WIND IN...
CLOSE THAT DOOR
AH...
...

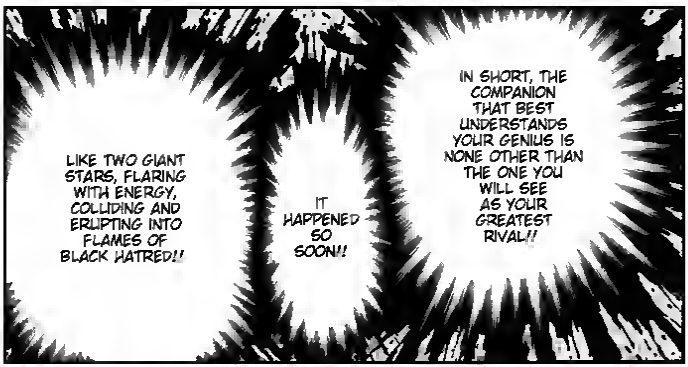
*HTTP://EN.WIKIPEDIA.ORG/WIKI/VINCENT_VAN_GOGH
**HTTP://EN.WIKIPEDIA.ORG/WIKI/PAUL_GAUGUIN

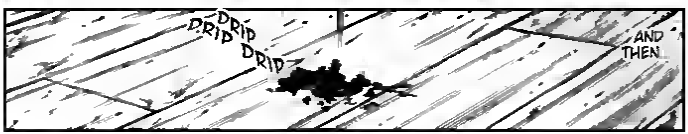
VINCENT VAN GOGH*
(1853 - 1890)
BORN IN THE NETHERLANDS AND LIVED IN FRANCE FOR MOST OF HIS CAREER. HE ESTABLISHED A UNIQUE PAINTING STYLE CHARACTERIZED BY VIVID COLORS AND VIOLENT BRUSHWORK HIS WORKS INCLUDE "THE LANGLOIS BRIDGE AT ARLES" AND "SUNFLOWERS"

BOTH WERE MASTERS OF IMPRES-SIONISM!!
PAUL GAUGUIN**
(1848-1903)
A FRENCH PAINTER FAMOUS FOR HIS BOLD EXPERIMENTATION WITH COLOR.
IN THE LATER YEARS OF HIS LIFE, HE TENDED TO CREATE PAINTINGS WITH DEEP SYMBOLISM. HIS WORKS INCLUDE "TAHITIAN WOMEN" AND "THE YELLOW CHRIST"

IN ORDER TO UNDERSTAND THEMSELVES BETTER, VAN GOGH AND GAUGUIN DECIDED TO LIVE TOGETHER
WHEN THESE TWO GENIUS PAINTERS MET IN FRANCE, THEY CAME TO AN UNDERSTANDING BORN OUT OF TALENT.

BUT THERE WAS A PITFALL.
THEY UNDERSTOOD ONE ANOTHER AND THEIR LIFE TOGETHER WENT WELL IN THE BEGINNING.


LIKE TWO GIANT STARS, FLARING WITH ENERGY, COLLIDING AND ERUPTING INTO FLAMES OF BLACK HATRED!!
IT HAPPENED SO SOON!!
IN SHORT, THE COMPANION THAT BEST UNDERSTANDS YOUR GENIUS IS NONE OTHER THAN THE ONE YOU WILL SEE AS YOUR GREATEST RIVAL!!


DRIP
DRIP
DRIP
AND THEN

IN SUCH A VERY DEEP DESPAIR...
VAN GOGH CUT OFF HIS OWN EAR!!
IN THE END THEY WILL DESTROY EACH OTHER...
IF TWO GENIUSES LIVE TOGETHER, HATRED WILL BE BORN

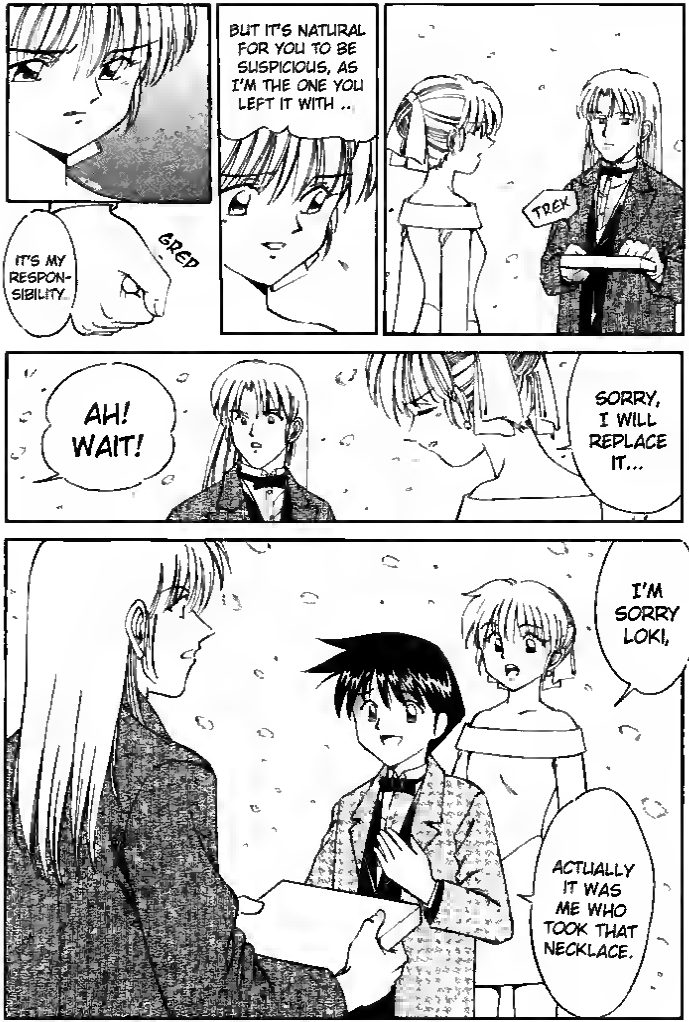
IN ORDER TO ENSURE...
WHICH IS GOD'S CHOSEN ONE!!

IT'S REALLY COLD, HUH?
コッ
LOKI?
THE VIEW IS AMAZING!!
LOOK LOK!!
STANDING IN A PLACE LIKE THIS?
AREN'T YOU AFRAID...

GRIP
KNOCK KNOCK
!
TOUMA -KUN!
fuuh
I BOUGHT YOU A GIFT HERE!
SORRY WE'RE LATE,
IT'S BECAUSE WE STOPPED SOMEWHERE FIRST...

IDIOT!! MAKING OTHER PEOPLE WORRIED!!
....
S,SORRY
COME ON, I WAS THE ONE THAT BROUGHT HIM THERE... FORGIVE US?
HA HA..
OKAY THEN! HERE'S YOUR PRECIOUS GIFTS!
EH?
WHAT IS IT?

THE NECKLACES ...
ONE IS MISSING.
JUST LOOK! THERE WERE SIX AND NOW THERE ARE ONLY FIVE!
WOW, RIGHT!
EH!?
I, I DON'T KNOW EITHER! I DIDN'T TAKE IT!
I DIDN'T TOUCH IT AT ALL...

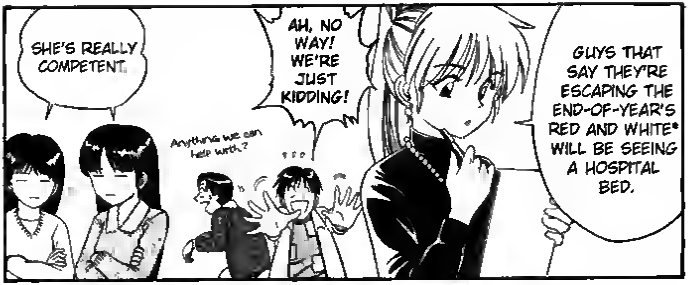

IT'S MY RESPONSIBILITY.
GRIP
BUT IT'S NATURAL FOR YOU TO BE SUSPICIOUS, AS I'M THE ONE YOU LEFT IT WITH ..
TREY
AH! WAIT!
SORRY, I WILL REPLACE IT...
I'M SORRY LOKI,
ACTUALLY IT WAS ME WHO TOOK THAT NECKLACE.

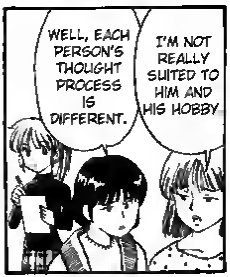
LOOK HERE!
!!
. . . .
NO, IT'S TRUE.
THERE'S NO NEED TO PROTECT ME!
YOU DIDN'T EVEN TOUCH THAT BOX!
I'M SORRY; LET ME RETURN IT TO THE BOX.
ACTUALLY I WAS JUST FEELING MISCHIE-VOUS, SO I DID IT..
SINCE WHEN?
!?
THE SET OF NECKLACES IS COM-PLETE.
HUH? HOW STRANGE!

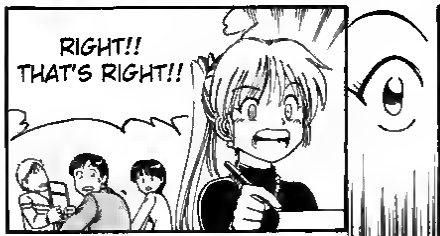
IN THAT CASE...
WHY IS THERE AN EXTRA NECKLACE?
THIS IS A CHRISTMAS PRESENT FOR MIZUHARA-SAN
EH!
RIGHT, LOKI?
...
HE HE HE ...
HA HA HA HA HA!!

YES, THAT'S RIGHT!
THAT'S FOR THE BEST!
HUH
?
IF I'M NOT WRONG, THERE WERE ONLY FIVE NECKLACES, AND THEN THERE WERE SIX... WAS THAT JUST AN OPTICAL ILLUSION?
THEN WHAT'S THE MEANING BEHIND LOKI'S WORDS: "THAT'S FOR THE BEST"...?

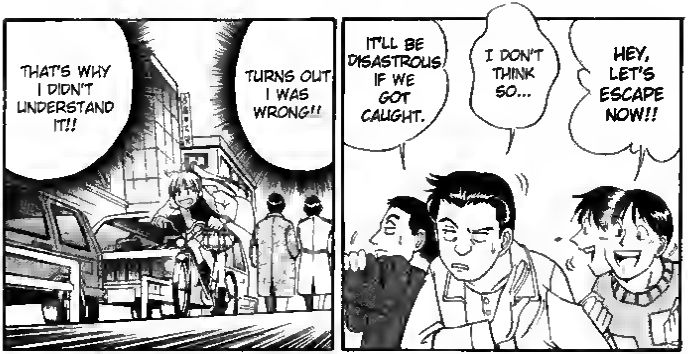
FOUR DAYS AFTER THAT, I WAS SO BUSY THAT I HAVEN'T HAD TIME TO CALL TOUMA-KUN...
And then, on Christmas Eve.
ARE THERE ENOUGH PLATES?
HEY! MOVE THOSE BALLOONS AWAY!! WE'LL ARRANGE THEM LATER!!
AFTER THIS, FOUR OF YOU BOYS GO FETCH THE FOOD FROM THE STORE BY 4PM, PLEASE!
WON'T THE CATERERS DELIVER THE FOOD HERE?
HOW MUCH DO YOU THINK A FEE OF 2000 YEN WILL GET YOU?
TURNS OUT THERE'S A LOT OF PEOPLE COMING! EVEN THOUGH WE ALREADY CUT BACK, WE'LL STILL HAVE TO REALLY STRUGGLE
LET'S BAIL! HAVE HER TAKE CARE OF THIS ON HER OWN!
HOW DARE SHE ORDER US AROUND
hmm..
DOES IT MEAN A LOT OF PEOPLE ARE STILL SINGLE?

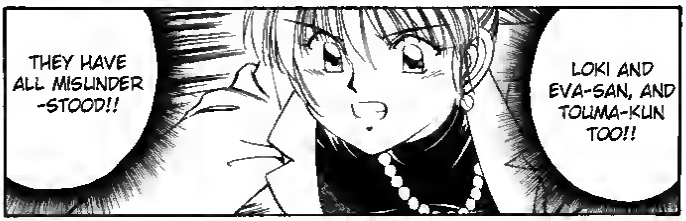

SHE'S REALLY COMPETENT.
AH, NO WAY! WE'RE JUST KIDDING!
Anything we can help with?
GUYS THAT SAY THEY'RE ESCAPING THE END-OF-YEAR'S RED AND WHITE* WILL BE SEEING A HOSPITAL BED.

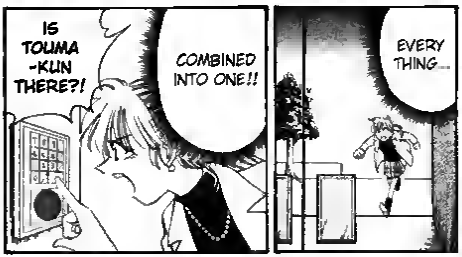




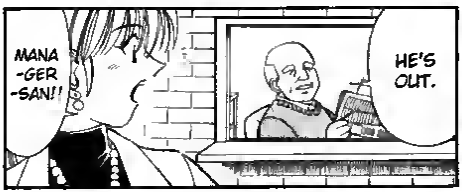
* Red and white are festive colours, so they're another way of referring to the party.


IT'LL BE DISASTROUS IF WE GOT CAUGHT.
I DON'T THINK SO...
HEY, LET'S ESCAPE NOW!!
TURNS OUT I WAS WRONG!!
THAT'S WHY I DIDN'T UNDERSTAND IT!!


LOKI AND EVA-SAN, AND TOUMA-KUN TOO!!
THEY HAVE ALL MISUNDER -STOOD!!


IS TOUMA -KUN THERE?!
COMBINED INTO ONE!!
EVERY THING...

WHEN TOUMA-KUN'S THESIS WAS STOLEN..
AND THE REASON WHY LOKI AND EVA-SAN CAME TO JAPAN..

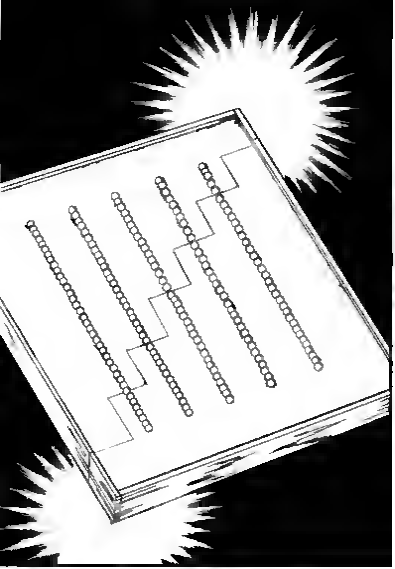

MANA -GER -SAN!!
HE'S OUT.

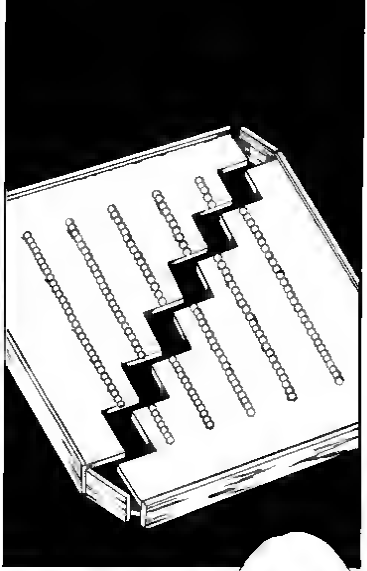
TOUMA-SAN WENT TO NARITA AIRPORT.
EH?
THERE'S A MESSAGE FOR YOU.
AREN'T YOU MIZU-HARA-SAN?
AH!
Q.E.D.
WHY THE PEARL NECKLACE IS MISSING,
THE ONE WHO THREW HIS THESIS AWAY...
AND WHY LOKI CAME TO JAPAN...
HE'S FIGURED IT OUT ALREADY!!

LOKI MEANT TO...
INVITE TOUMA-KUN BACK TO AMERICA!!
YOU'VE FINALLY COME ..
THERE'S STILL SOME TIME BEFORE DEPARTURE
COME SIT DOWN,
EVA IS BUYING SOME SOUVENIRS

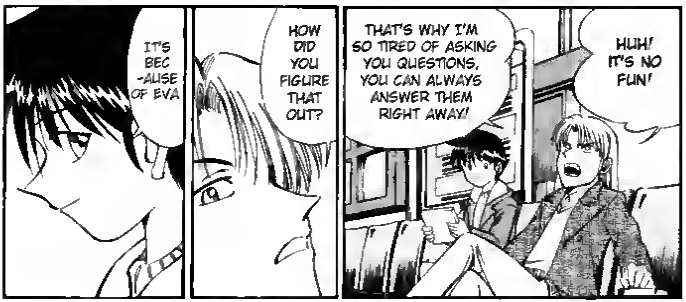
PIIP
THIS IS BAD!!
MAYBE HE'S ALREADY ON HIS WAY BACK TO AMERICA!!
I KEEP LOOKING
FOR SOMEONE THAT CAN TRULY UNDERSTAND ME
WHAT A NICE SURPRISE, THAT GOD LET ME MEET SOMEONE LIKE YOU
HOW YOU UNDERSTAND ME IS LIKE COTTON ABSORBING WATER

WE'RE BOTH LOOKING FOR 'SOMEONE'
SURPRISINGLY, IT TURNS OUT WE HAD SOMETHING SIMILAR ...
THAT'S WHAT I ALWAYS THOUGHT
PIZZA
YOU'RE MY ONLY FRIEND ...
AND DROPPED OUT OF THE UNIVERSITY, RIGHT?
THAT'S THE REASON WHY YOU THREW AWAY YOUR THESIS,
HOW FASCINA-TING.
EVEN THOUGH I WORKED HARD TO MAKE THIS AT THE RESEARCH LAB, IT'S A PRANK
GO AHEAD.
LOKI, MAY I TAKE A LOOK AT THE JEWELRY BOX ONE MORE TIME?
パカッ





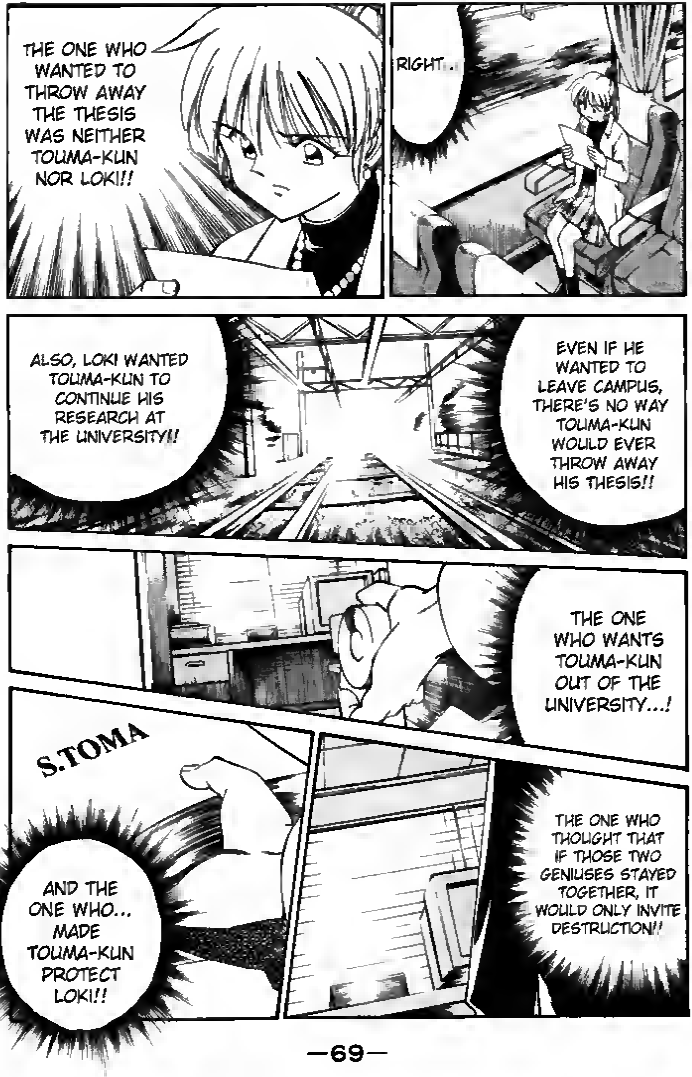
THEN ROTATE THE LID SO IT WILL FIT THE LENGTH OF THE BOX.
THIS WAY, THE SIX NECKLACES ONLY LOOK LIKE FIVE


IT'S BEC -AUSE OF EVA
HOW DID YOU FIGURE THAT OUT?
THAT'S WHY I'M SO TIRED OF ASKING YOU QUESTIONS, YOU CAN ALWAYS ANSWER THEM RIGHT AWAY!
HUH! IT'S NO FUN!

BUT YOU PURPOSELY SHOWED IT TO US.
IF THE NECKLACE WASN'T FOR YOUR PARTNER, THEN THE NECKLACE MUST NOT BE THAT IMPORTANT.
EVA'S NAME WASN'T ON THE LIST OF PEOPLE WHO YOU WERE GOING TO GIVE A GIFT TO...
THAT'S WHY I GUESSED THAT YOU MUST HAVE ALREADY PREPARED A TRICK!!
AH!
YOUR STUPIDITY JUST MAKES ME ANGRY!!
AH! THAT'S ENOUGH!!
THEN KEPT IT IN MY POCKET
BECAUSE I KNEW SOMETHING WAS GOING TO HAPPEN, I BOUGHT THE SAME NECKLACE WHEN I WENT AROUND TOKYO,

JUST LIKE WHEN YOU PROTECTED ME ON THE THESIS CASE..
I WANT TO MAKE SURE ..
YOU PROTECTED THE GIRL.
AND ABOUT THE CASE WHERE YOU PROTECTED ME
I'LL INVESTIGATE IT UNTIL THE END!

I'M GLAD, TURNS OUT IN THIS BRAVE NEW WORLD I CAN STILL FIND...
PEOPLE WHO CARE ABOUT OTHERS.
LOKI
YES?
ACTUALLY, I ALREADY KNOW WHO THREW OUT MY THESIS.
!?
WAIT !!
WHO!?
. . . . !!


THE ONE WHO WANTED TO THROW AWAY THE THESIS WAS NEITHER TOUMA-KUN NOR LOKI!!
RIGHT..
ALSO, LOKI WANTED TOUMA-KUN TO CONTINUE HIS RESEARCH AT THE UNIVERSITY!!
EVEN IF HE WANTED TO LEAVE CAMPUS, THERE'S NO WAY TOUMA-KUN WOULD EVER THROW AWAY HIS THESIS!!
THE ONE WHO WANTS TOUMA-KUN OUT OF THE UNIVERSITY...!
S.TOMA
AND THE ONE WHO... MADE TOUMA-KUN PROTECT LOKI!!
THE ONE WHO THOUGHT THAT IF THOSE TWO GENIUSES STAYED TOGETHER, IT WOULD ONLY INVITE DESTRUCTION!!

EVA!!

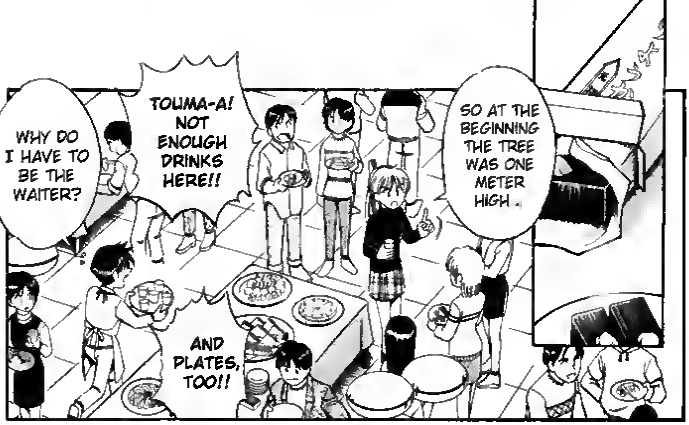
EVA! YOU!!
WAIT, LOKI!!
EVERYTHING IS OVER..
I'M STILL UNSURE MYSELF!! PLEASE, STOP!!
EVA WAS JUST TRYING TO HELP ME!!

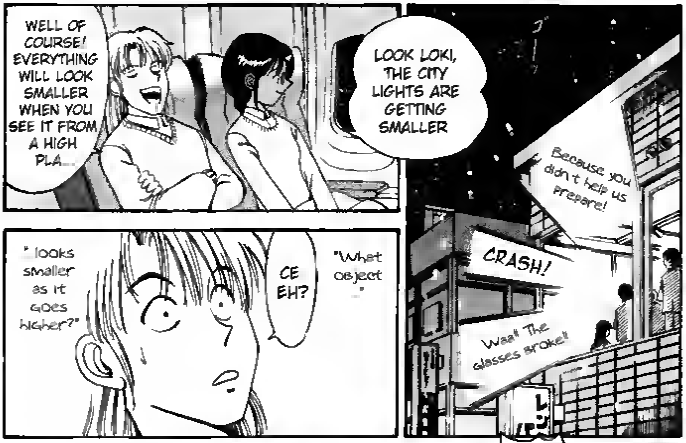
JUST LIKE YOU SAID ...
AREN'T YOU THE ONE WHO KEEPS TRYING TO FIND SOMEONE WHO CAN UNDERSTAND YOU?
THAT'S WHY ...
YOU MUST UNDERSTAND.
FORGIVE ME, TOUMA.
I'M TRULY SORRY.
.....!

MIZU-HARA-SAN!?
WHAT HAPPENED? AREN'T YOU SUPPOSED TO BE PREPARING FOR THE PARTY?
HERE HERE
...
HE HE
WHAT IS IT?
ウヒヒ
WHAT!?
WHAT ARE YOU DOING HERE!?
WHAT'S THE MATTER? I'D TOLD YOU THAT I'M DROPPING OFF LOKI AND EVA, RIGHT!?
HA HA HA ..
THAT'S RIGHT ..

WHAT'S THAT SUPPOSED TO MEAN!?
MY APOLOGIES.
THE THING WE WANT TO PROVE
IS NOW OUT IN THE OPEN.
EVERYTHING
EH?
C'MON, EVA!
BYE, TOUMA!!
LOK!
WE'LL ROAST A TURKEY WHEN WE GET HOME
YOU HAVEN'T TOLD ME THE ANSWER FOR THE QUIZ!!
WAIT!!
I'M GOING NOW!!
LOK!!

NO WAY!!!
FIND IT ON YOUR OWN!!
AH, THEY'RE GONE ...
...
GOOD BYE, EVA!!
GOOD BYE, LOKI!!
GOOD BYE ...




WELL OF COURSE! EVERYTHING WILL LOOK SMALLER WHEN YOU SEE IT FROM A HIGH PLA...
LOOK LOKI, THE CITY LIGHTS ARE GETTING SMALLER
Because you didn't help us prepare!
CRASH!
Wait! The glasses broke!
"looks smaller as it goes higher?"
CE EH?
"What object"

BREAK THROUGH: QED

quod erat demonstrandum

Notes for Your Brain's Pleasure

@OKeanWave

On page 15, Touma mentions that Loki's nickname was taken from a god of Norse mythology, Loki. Loki is a trickster god, a shapeshifter, clever and imaginative. He enjoyed playing practical jokes on everyone. Many times, Loki had to use his talents to get himself out of trouble for his jokes, such as when he cut off the golden hair of Sif, Thor's wife. Thor threatened to break every bone in his body, unless he found some way of replacing it.
http://www.timelessmyths.com/norse/aesir.html#Loki

On page 20, Touma's lecturer mentions some names. Those people are the Nobel Laureates and MIT graduates.

- Isaac Rabi: Nobel Physics Laureate 1944 for investigations into the nature of the force binding protons to atomic nuclei. Creating the molecular-beam magnetic-resonance detection method.
http://en.wikipedia.org/wiki/Isidor_Isaac_Rabi

- Edward Mills Purcell: Nobel Prize for Physics in 1952 for his independent discovery (published 1946) of nuclear magnetic resonance in liquids and in solids.
http://en.wikipedia.org/wiki/Edward_Mills_Purcell

- William Shockley: Along with John Bardeen and Walter Houser Brattain, he co-invented the transistor, for which all three were awarded the 1956 Nobel Prize in Physics.
http://en.wikipedia.org/wiki/William_Bradford_Shockley

- Steven Weinberg: Nobel laureate in Physics (1979) for his contributions with Abdus Salam and Sheldon Glashow to the unification of the weak force and electromagnetic interaction between elementary particles.
http://en.wikipedia.org/wiki/Steven_Weinberg

- Franco Modigliani: received the Nobel Prize for Economics in 1985 for his work on household savings and the dynamics of financial markets.
http://www.nobel-winners.com/Economics/franco_modigliani.html

- Luis Alvarez: Awarded the Nobel Prize in Physics in 1968, for work that included the discovery of many resonance particles (subatomic particles having extremely short lifetimes and occurring only in high-energy nuclear collisions).
http://www.nobel-winners.com/Physics/luis_walter_alvarez.html

- Burton Richter: Won the Nobel Prize in Physics in 1976 for co-discovering the J/ψ meson in 1974, along with Samuel Ting.
http://en.wikipedia.org/wiki/Burton_Richter

- John Robert Schrieffer: Recipient of the 1972 Nobel Prize for Physics for developing the BCS theory, the first successful microscopic theory of superconductivity.
http://en.wikipedia.org/wiki/John_Robert_Schrieffer

- Susumu Tonegawa: Received the Nobel Prize for Physiology or Medicine in 1987 for his discovery of the genetic principle for generation of antibody diversity.
http://en.wikipedia.org/wiki/Susumu_Tonegawa

Notes for Your Brain's Pleasure

On page 27, a classmate of Loki mentions Field Medals. Founded at the behest of Canadian mathematician John Charles Fields, Fields Medal is a prize awarded to two, three, or four mathematicians not over 40 years of age at each International Congress of the International Mathematical Union, a meeting that takes place every four years. The Fields Medal is often viewed as the top honor a mathematician can receive.
http://en.wikipedia.org/wiki/Fields_medal

On page 30, Touma drew a strange attractor which surprised Loki. First of all, an attractor is a set to which a dynamical system evolves after a long enough time. An attractor is informally described as strange if it has a non-integer dimension or if the dynamics on it are chaotic.
As Loki mentions afterwards, chaos'
http://en.wikipedia.org/wiki/Attractor#Strange_attractor
http://en.wikipedia.org/wiki/Chaos_theory

QED by
Motohiro Katou
presented by
OrionWave
Cleaner: Gobi
TL: Saturn Beaver
PF: Yasiru89
TS: Lynossa
QC: Argentscarf
Thanks to Dracol988
for the RAWs!!

THANKS YOU
DRAC01988
FOR THE RAWS!!
CLEANER: ONS.07
& MOTTE
EDITOR: LYNOSSA
TL: SATURN BEAVER
PF: YASIRU89
TS: ALLTIMELOVE
QC: RYUUYASHA
by ORionWave

THANKS TO ANZU & DRACO1988 FOR THE RAWS!!
CLEANER: DNS.07 & LYNOSSA
EDITOR: LYNOSSA
TL: SATURN BEAVER
PR: YASIRU 89
TS: RIONEOI
QC: ARGENTSCARF
@ OrionWave

HOW ABOUT HER? SHE LOOKS LIKE SHE'D BE A GOOD CLEANER, RIGHT?
WHAT ARE YOU BASING THAT ON? HER BAG CHOICE?
HMM, A TYPE -SETTER, MAYBE?
IS THAT BECAUSE SHE DRESSES LIKE A SECRE -TARY?
OH, SHE'S READING PROBABLY QCING AS WE SPEAK.
MIZUHARA -SAN!
DON'T BASE SUCH AN IMPORTANT THING ON JUST APPEARANCE! THERE HAS TO BE STRICT CRITERIA FOR ORIONWAVE STAFF, YOU KNOW!!
TOUMA-KUN, DON'T BE SO UPTIGHT! THEY JUST HAVE TO CHECK HTTP:// ORIONWAVE WORDPRESS COM, RIGHT?

The Fading of Star Map

THE INHABITANTS ARE COMPLAINING ABOUT THIS PLACE... THERE'S A SKI RESORT OVER THERE, SEE?
THE OBSERVATORY IS IN SHAMBLES... WHAT IF SOMEONE WANDERED INSIDE AND GOT INJURED!?
THIS BUILDING SHOULD BE DEMOLISHED!!

BUT WE'RE FACING PROBLEMS IN COURT.
WEVE TRIED MEDIATION, BUT THE OWNER AND FOUNDER OF THIS PLACE, FUKUTARO TSUKISHIMA, DISAPPEARED 25 YEARS AGO...
I'M GATHERING EVERYONE RELATED TO TSUKISHIMA-SAN
SO WE CAN DECIDE WHO THE LEGAL BENEFICIARY IS.

IN CIVIL LAW, WHEN THE OWNER OF A PROPERTY HAS BEEN MISSING FOR 7 YEARS, HE IS OFFICIALLY DECLARED DEAD.
TSUKISHIMA-SAN WAS DECLARED MISSING 25 YEARS AGO
HARUO IKETANI, DISTRICT COURT INVESTIGATOR
DON'T BE SILLY,
YOUR DRAWING'S STILL INTACT!
LOOK, ANIKI!
HM, IS THAT SO?
SEIJI TSUKISHIMA, FUKUTARO'S SECOND SON
MOTHER DID.
SEIICHI TSUKISHIMA, FUKUTARO'S ELDEST SON

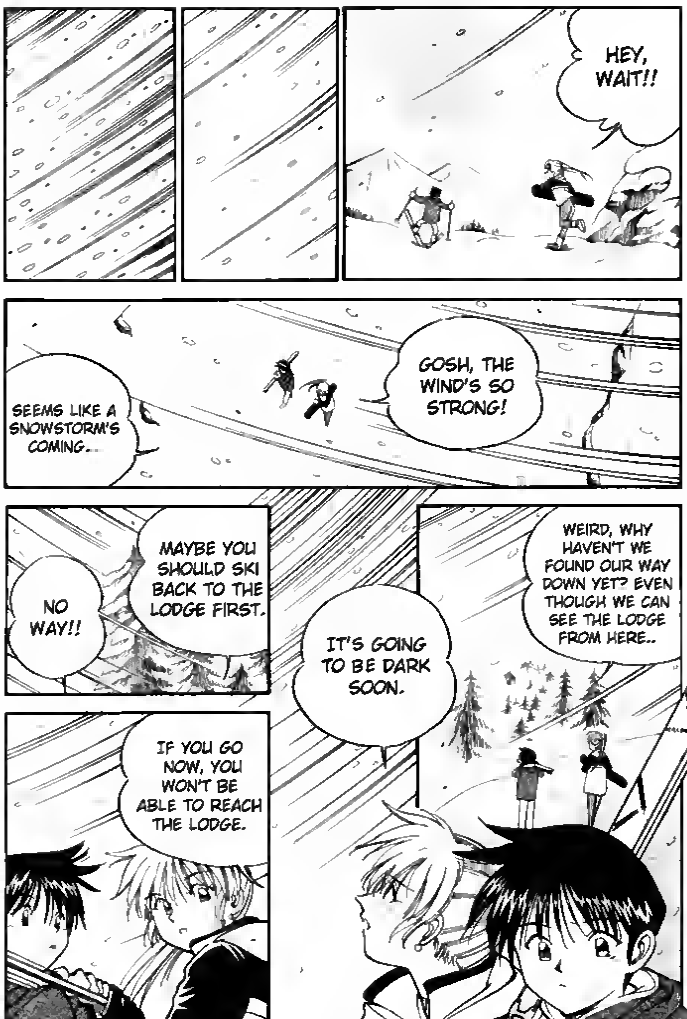
FROM NOW ON, WE'RE THE LORDS OF THIS BUILDING...
MUNEAKI MIYABE, FUKUTARO'S BROTHER-IN-LAW
THE EQUIPMENT IS BROKEN.
TAKAYUKI MUKAI, ASTRONOMER, FUKUTARO'S CLOSE FRIEND
AH, IT'S NOTHING
GOHAN
FROM NOW ON?
HUH!?
ANYWAYS, PLEASE DECIDE WHO WILL BE THE LEGAL BENEFACTOR AND WHO WILL PAY FOR THE DEMOLITION.

コポォ

WHEEE!!
WOW THAT WAS FUN!!

HUH? WHERE'S TOUMA-KUN?
Do I even need to teach that kid anything?
AWESOME MOTOR SKILLS...
KANA, IS THIS REALLY THE FIRST TIME YOU'VE SKIED?
AH, HE'S OVER THERE!
TAP
TAP
I DID IT!
HE'S PROUD JUST BECAUSE HE DID IT, WHAT A SIMPLETON...
IS THAT A NEW WAY TO SKI?

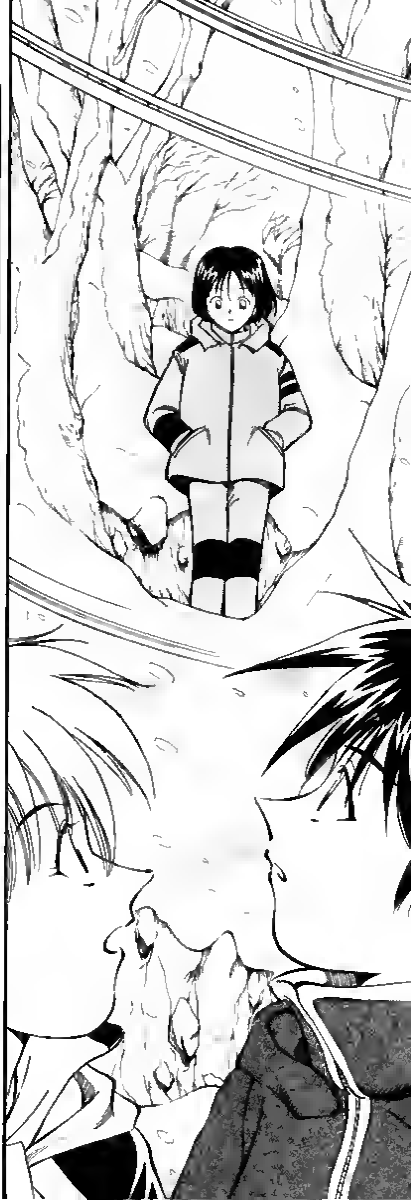
OK, LET'S GO!
ACTUALLY, THERE'S AN INTERESTING SKI TRACK UP THERE!
HEY, WAIT!!
REALLY, MIZUHARA-SAN?!
GOOD JOB, TOUMA-KUN! I JUST LEFT YOU FOR A MINUTE AND YOU'VE IMPROVED SO MUCH!
PAT
ARE YOU KIDDING ME?!
IF YOU CAN GO DOWN THIS PATH, IT MEANS YOU HAVE BECOME A MAN!!
just once!
COWARD! SO I HAVE TO SKI ALONE NOW?
I'LL WALK.
GO AHEAD. I DON'T WANT TO DIE.
DANGER
advanced course: not for beginners


HEY, WAIT!!
GOSH, THE WIND'S SO STRONG!
SEEMS LIKE A SNOWSTORM'S COMING...
WEIRD, WHY HAVEN'T WE FOUND OUR WAY DOWN YET? EVEN THOUGH WE CAN SEE THE LODGE FROM HERE..
MAYBE YOU SHOULD SKI BACK TO THE LODGE FIRST.
NO WAY!!
IT'S GOING TO BE DARK SOON.
IF YOU GO NOW, YOU WON'T BE ABLE TO REACH THE LODGE.

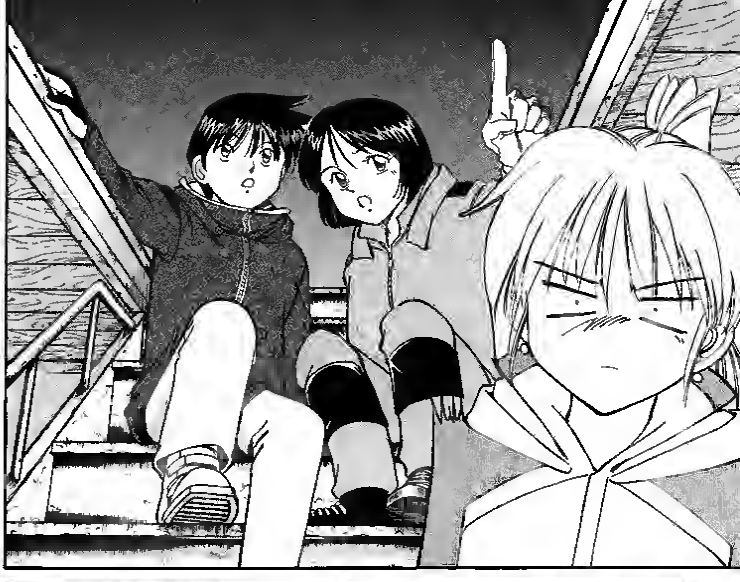
FOLLOW ME.

EH ..
WHO ARE YOU. .?

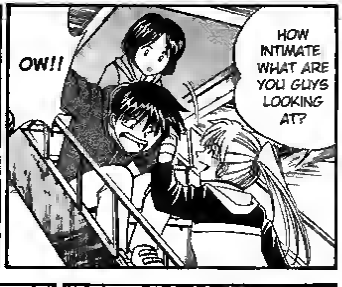
JUST FOLLOW ME UNLESS YOU WANT TO SLEEP IN THE SNOW.



NOW WE'RE IN AN OBSERVATORY ON THE MOUNTAINTOP. MAYBE WE CAN GO DOWN TOMORROW...
YEAH, A GIRL HELPED US...
コルネオ
PO-LI-CE?
EH?
AND WE SAW A BUNCH OF POLICEMEN THEY SAID SOMETHING HAPPENED ON THE MOUNTAIN, BUT THEY CAN'T GO UP BECAUSE OF THE SNOWSTORM.
YEAH, WE ALL WENT INSIDE THE LODGE...
!
I WONDER WHAT HAPPENED.
ｶﾁｬ



WHAT SHOULD WE DO? THE POLICE ARE LATE.


OW!!
HOW INTIMATE WHAT ARE YOU GUYS LOOKING AT?

GEEZ! TO FIND SOMETHING LIKE THIS IN THE TELE-SCOPE...

WE MUST PRESERVE THE CRIME SCENE

EEK!!
WHO ARE YOU? HOW DARE YOU TRESPASS ONTO OUR PROPERTY!!
THE BODY IS COMPLETELY CHARRED
I GUESS WE'LL JUST DEAL WITH IT, THEN.
HITOMI TSUKISHIMA, SEIICHI TSUKISHIMA'S DAUGHTER
BECAUSE THEY WERE LOST.
DAD, I BROUGHT THEM HERE
HITOMI?

AAH!! SO THIS IS A TELESCOPE?

THIS IS THE FIRST TIME I'VE SEEN ONE THIS BIG!

EH? THERE ARE NO LENSES.

IS IT BROKEN?

IT'S A REFLECTING TELESCOPE

IT'S NOT LIKE A SMALLER REFRACTING TELESCOPE,* WHICH USES LENSES

THAT TYPE USES LARGE LENSES TO COLLECT LIGHT FROM FARAWAY OBJECTS

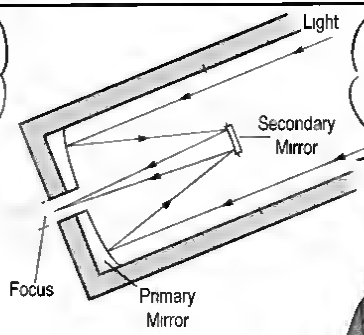
HOWEVER, THEY AREN'T IDEAL FOR EXTREMELY FAR OBJECTS BECAUSE THE LENSES ARE SO THICK, THEY WILL WARP THE IMAGE.

WONG

SO I CONCLUDED THAT THIS IS A REFLECTOR**

THAT USES MIRRORS, INSTEAD OF LENSES, TO FOCUS LIGHT,

SO THEY CAN MAGNIFY OBJECTS CLEARLY.



* HTTP://EN.WIKIPEDIA.ORG/WIKI/REFRACTING_TELESCOPE

** HTTP://EN.WIKIPEDIA.ORG/WIKI/REFLECTING_TELESCOPE

BUT WHY DID HE DIE?
WOW, YOU KNOW A LOT, DON'T YOU?
TOUMA-SAN, YOU'RE AMAZING!
AH!
NO WAY!
DID HE COMMIT SUICIDE IN THAT TELESCOPE?
SOMEBODY MIGHT HAVE KILLED HIM ...
THAT'S IMPOS-SIBLE.
DOESN'T A CONCAVE MIRROR WORK LIKE A MAGNIFYING GLASS?
MAYBE HE ACCIDENTALLY FELL INSIDE ...
OH, YEAH ...
THIS TELESCOPE IS 100 INCHES WIDE, SO HE COULD'VE AVOIDED THE SUNLIGHT BY MOVING TO THE EDGE.
AND GOT KILLED BY THE SUN'S RAYS THAT WERE FOCUSED ON THE MIRRORS

*11

AH...
MAYBE IT'S
FUKUTARO TSUKISHIMA-SAN WHO WENT MISSING 25 YEARS AGO...
.....
HM...
BUT WHY WOULD HE BECOME CHARRED LIKE THIS?
THE PROBLEM IS, WHO IS THIS?
BEFORE WE EXAMINE THE CORPSE
OK!
HE'S RIGHT! SEIJI, HELP ME!
WE SHOULD PREPARE FOR THE NIGHT BEFORE IT GETS DARK AND COLD...
BECAUSE WE'RE TRAPPED BY THE SNOWSTORM,

IT'S HERE!
EMERGENCY RATIONS AND SOME SLEEPING BAGS!
WE'RE SAVED
BECAUSE NOBODY LIVES AROUND HERE, THE INNKEEPERS USUALLY TAKE TURNS MAINTAINING THIS PLACE
DAD USED TO LOCK ME UP HERE WHEN I WAS GROUNDED ...
ANIKI, YOU MUST HAVE MISSED THIS DYNAMO ROOM
OK, OK!!
WE HAVE WORK TO DO.
REMI-NISCE LATER,
EVEN THESE DRAWINGS ARE STILL HERE

SO WHEN SNOW MELTS, ITS VOLUME DECREASES
OK.
LET ME BRING THE HOT WATER WHILE YOU COOK
WE'RE STILL UNCOVERING THE WATER PIPE THAT'S BURIED BENEATH THE SNOW
SORRY FOR THE WAIT
THIS PIPE MUST'VE BEEN FROZEN
POUR SOME HOT WATER OVER THIS PIPE
I THINK WE'RE DONE HERE. LET'S GO TO THE BASEMENT
OK

FUKU-TARO? NO WAY!
HE'S JUST A POOR SCHOLAR, LIKE ME
HE MUST BE A VERY RICH MAN, RIGHT?
FOR SOMEONE TO BE ABLE TO BUILD THIS LARGE OBSERVATORY
THUD
HIS WIFE IS THE RICH ONE
HER NAME WAS TAEKO-SAN
FOR SOME REASON SHE FELL IN LOVE WITH HIM
SUCH A SWEET GIRL,
BUT HER PARENTS WERE VERY OVERPROTECTIVE
TO HELP FUKUTARO BUILD HIS OBSERVATORY, SHE COLLECTED MONEY BY SELLING HER BELONGINGS AND BORROWING FROM HER RELATIVES.
SHE WAS SO PASSIONATE ABOUT IT
THEN SHE FINALLY STARTED STEALING MONEY FROM HER OWN FAMILY,
HER PARENTS BECAME FURIOUS AND DISOWNED HER

NOT LONG AFTER SEIJI-KUN WAS BORN
LOOK TAEKO! THIS IS THE HEART OF THE TELESCOPE!
THIS 100-INCH MIRROR FINALLY ARRIVED!
AMAZING, COMPLETELY UNBLEMISHED
WITH THIS, I WON'T LOSE TO BRAHE AND HUBBLE!!
REALLY ... I'M GLAD ...
IT'S ... LIKE A DREAM ...
TAEKO?

MOM!!
TAEKO!?
HYUUU
MOM!!!
MAYBE BECAUSE SHE NEVER LEFT HER FANCY HOUSE BEFORE,
HER CONDITION IS BECOMING WORSE BY THE SECOND
SO MAYBE THE OBSERVATORY PUT A LOT OF STRESS ON HER NERVES.
ER HEART WAS STRAINED

SHE NEEDS A HEART BYPASS SURGERY. EVEN THEN SHE MIGHT NOT EVEN BE SAVED.
IT ALSO REQUIRES A LOT OF MONEY
MUNEAKI-NII-SAN ...
HOW'S TAEKO?
HOW'S MOMMY?
I WILL TRY TO BORROW MONEY FROM MY OFFICE
R... RIGHT.
FUKUTARO-KUN! TAEKO'S LIFE IS MORE IMPORTANT, RIGHT?
MONEY IS NOT A PROBLEM!
GET OUT!!
宮部
WE MUST GET SOME MONEY TO SAVE TAEKO!

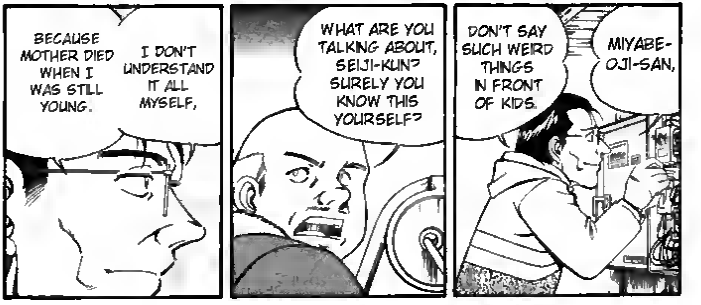
YOU SHAMELESS THIEF! HOW DARE YOU STEP INSIDE THIS HOUSE!!
PLEASE, FATHER-IN-LAW! HELP TAEKO!
YOU CAN BORROW MONEY FROM SOMEONE ELSE, RIGHT? YOU'RE PATHETIC!
SILENCE! I DON'T HAVE A DAUGHTER WHO STEALS FROM THEIR OWN PARENTS!!
IF YOU WANT TO SAVE TAEKO, SELL THAT OBSERVATORY!!
YOU WANT MONEY? SELL YOUR OWN BELONGINGS!!

IF I SELL THIS
SEI-ICHI
DADDY! HELP MOMMY!
DADDY
DON'T LET MOMMY DIE!!

BUT SOME PEOPLE SAID TAEKO COMMITTED SUICIDE
I'M NOT SURE MYSELF,
THUD
SO THIS OBSERVATORY WAS LEFT LIKE THIS BECAUSE TAEKO FELL ILL?
NO
YES... IN THIS OBSERVATORY
SUI-CIDE?
AFTER HIS WIFE DIED, FUKUTARO LIVED HERE WITH HIS TWO SONS, SEIICHI AND SEIJI
SHORTLY AFTERWARDS, FUKUTARO-KUN DISAPPEARED,
AFTER FINISHING JUNIOR HIGH, OLDER BROTHER SEIICHI LEFT THIS PLACE
ALL THIS
THIS PLACE MUST BE CURSED!

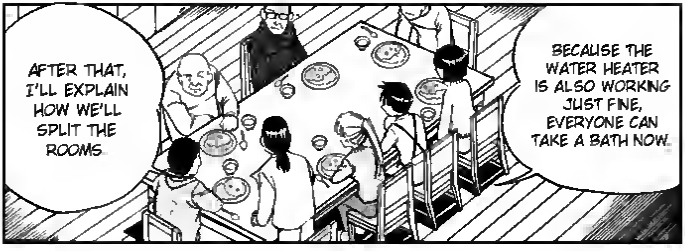
WHEN TAEKO WAS IN THE HOSPITAL, HE LOCKED HIMSELF UP IN THIS OBSERVATORY AND CONTINUED BUILDING HIS TELESCOPE
FUKUTARO WAS THE LOWEST OF THE LOW

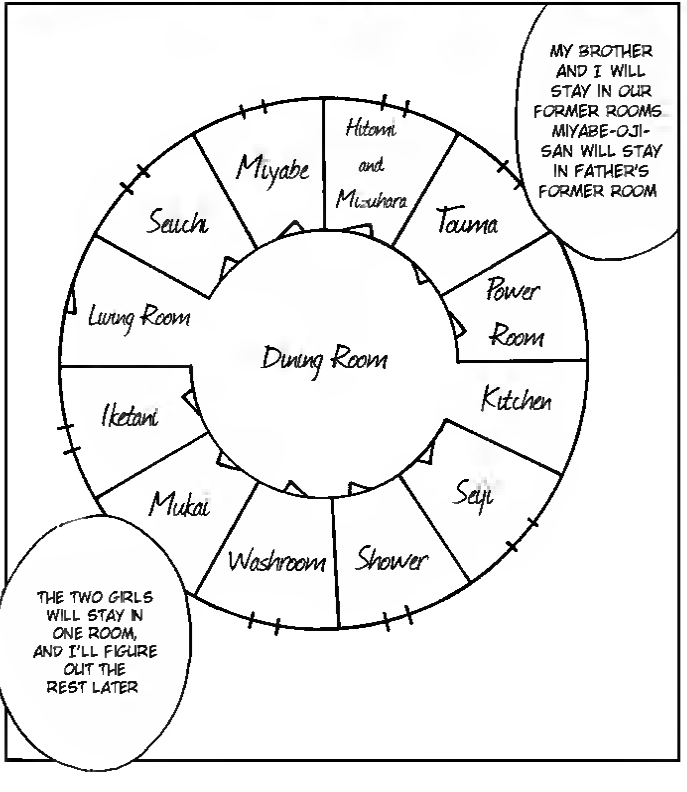
SO, HE MUST'VE MURDERED TAEKO AFTERWARDS!
HE FINALLY GOT WHAT HE WANTED!


BECAUSE MOTHER DIED WHEN I WAS STILL YOUNG.
I DON'T UNDERSTAND IT ALL MYSELF,
WHAT ARE YOU TALKING ABOUT, SEIJI-KUN? SURELY YOU KNOW THIS YOURSELF?
DON'T SAY SUCH WEIRD THINGS IN FRONT OF KIDS.
MIYABE-OJI-SAN,

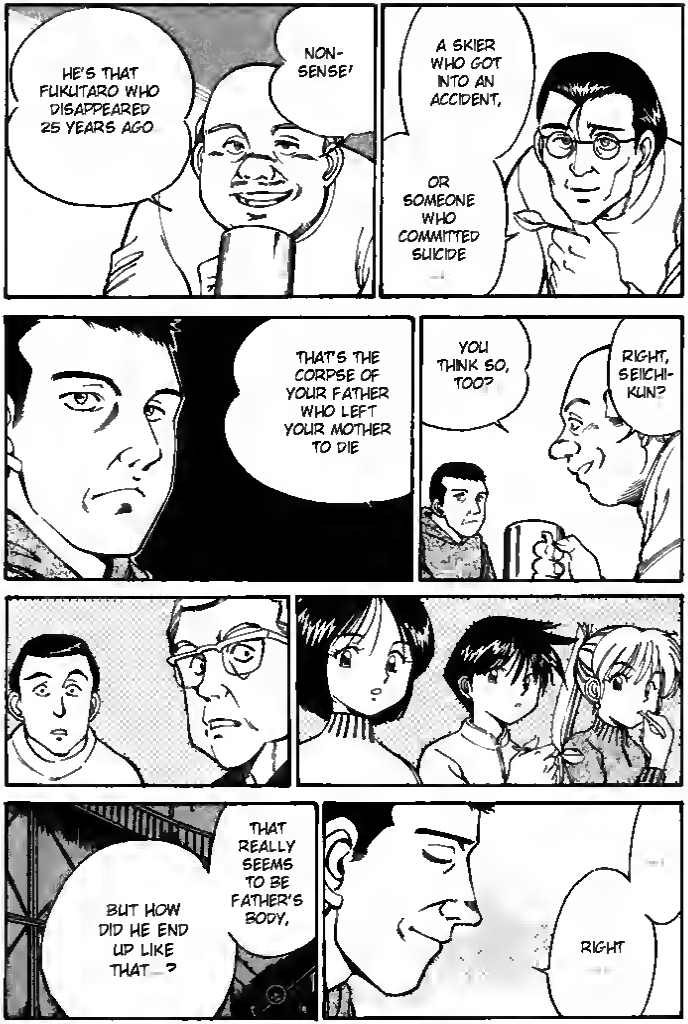
I ONLY HEARD RUMORS
I NEVER SAW IT MYSELF
EVERYONE SAID "YOUR FATHER IS EVIL AND DISGUSTING"
THERE'S NO SMOKE WITHOUT A FIRE
WELL, THAT'S THE TRUTH.
OK! I JUST FINISHED FIXING THE FUSE BOX, TOO.
WHEN THE PIPES ARE FUNCTIONING, PLEASE TURN ON THE CENTRAL HEATING SYSTEM!
HEY!

THIS ONE, RIGHT?
START THE GAS AND WATER
カチ
THE ELECTRICITY SHOULD BE RUNNING PROPERLY BY NOW
SOR-RY
HERE'S THE LIGHTER, OJII-SAN!
WITH THIS, THIS PLACE WILL FEEL WARM
ITADA
GAS, WATER, AND ELECTRICITY ARE ALL BACK TO NORMAL
THE FOOD AND SLEEPING BAGS ARE ALSO READY... WE JUST NEED TO WAIT FOR THE POLICE TO COME
HEATING
HEATING

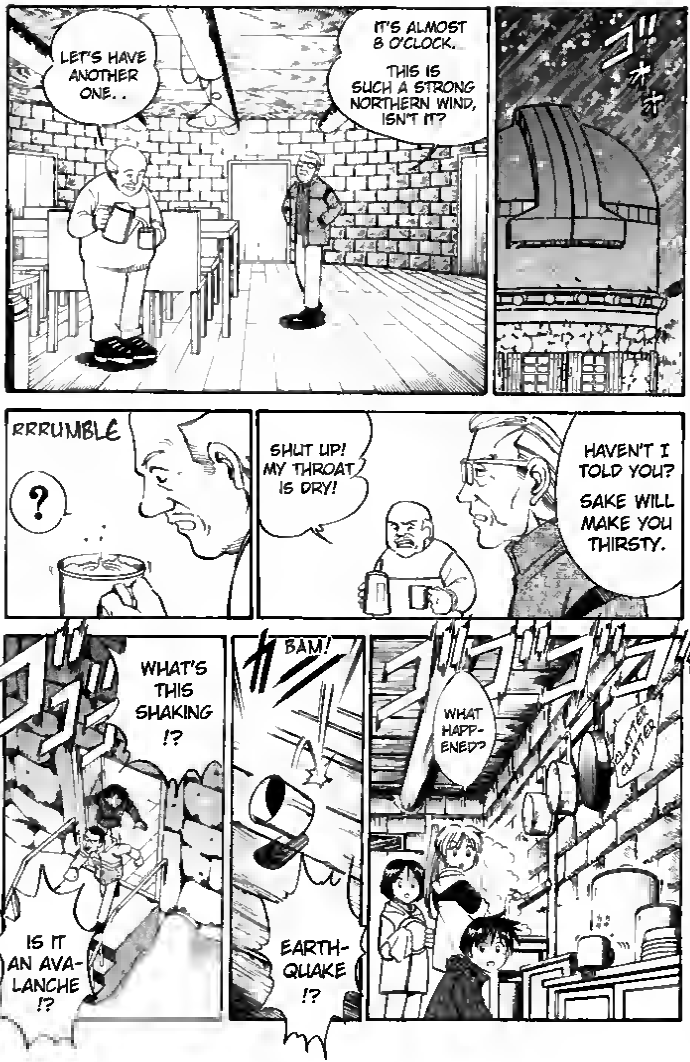

AFTER THAT, I'LL EXPLAIN HOW WE'LL SPLIT THE ROOMS.
BECAUSE THE WATER HEATER IS ALSO WORKING JUST FINE, EVERYONE CAN TAKE A BATH NOW.


MY BROTHER AND I WILL STAY IN OUR FORMER ROOMS. MIYABE-OJI-SAN WILL STAY IN FATHER'S FORMER ROOM
Hitomi and Mizuhara
Miyabe
Tauma
Power Room
Kitchen
Seiji
Shower
Washroom
Mukai
Iketani
Living Room
Seiichi
Dining Room
THE TWO GIRLS WILL STAY IN ONE ROOM, AND I'LL FIGURE OUT THE REST LATER

OH REALLY? I DIDN'T KNOW THAT
WAA, FROM PADDY GRASS, RIGHT?
I MADE IT, YOU KNOW.
I'M SO HAPPY THAT WE CAN EAT WARM RICE DESPITE BEING TRAPPED IN A BLIZZARD
NO,
YOU WANT SOME?
FOR ME, THIS IS ENOUGH!
SORRY, HE FOUND IT IN THE BASEMENT HIMSELF.
YOU GAVE HIM THAT BOTTLE OF SAKE?
IF WE DRINK SAKE, OUR THROATS WILL BECOME PARCHED AND WE'D NEED MORE WATER
WE CAN'T AFFORD GETTING DRUNK NOW
THE CORPSE IN THE OBSERVATORY
I WONDER WHO IT IS


HE'S THAT FUKUTARO WHO DISAPPEARED 25 YEARS AGO
NON-SENSE!
A SKIER WHO GOT INTO AN ACCIDENT,
OR SOMEONE WHO COMMITTED SUICIDE
THAT'S THE CORPSE OF YOUR FATHER WHO LEFT YOUR MOTHER TO DIE
YOU THINK SO, TOO?
RIGHT, SEIICHI-KUN?
THAT REALLY SEEMS TO BE FATHER'S BODY,
BUT HOW DID HE END UP LIKE THAT...?
RIGHT

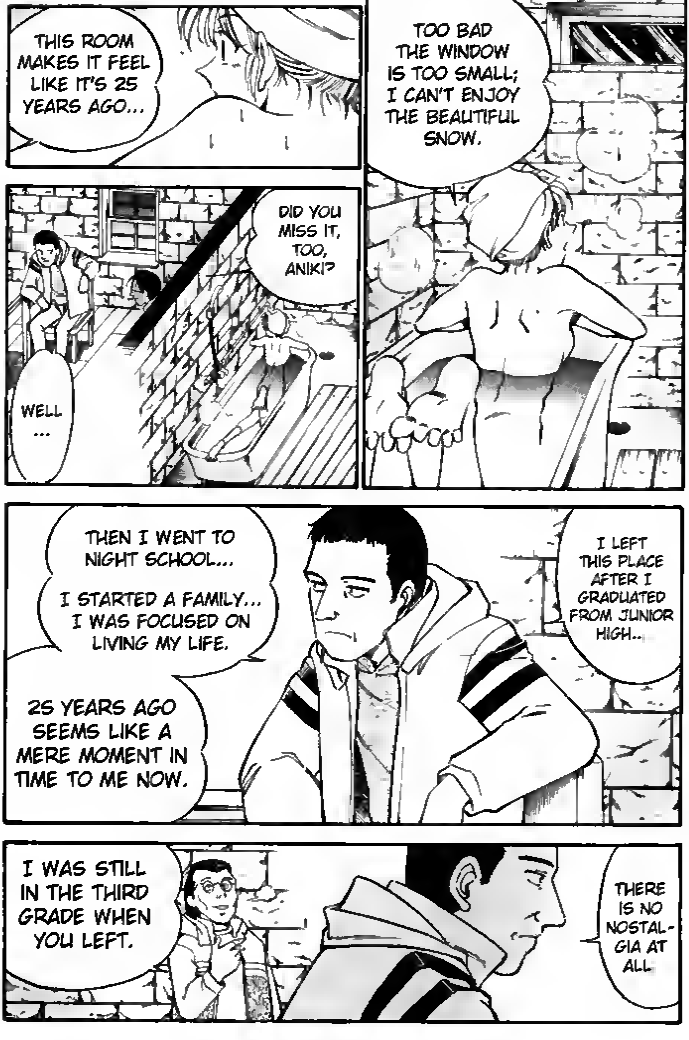
OR MAYBE HE WAS MURDERED!?
MAYBE BY ACCI-DENT?
SUICIDE?
IF HE WAS MURDERED, DID THE CULPRIT WANT HIS PROPERTY?
OR WAS IT FOR REVENGE?
COULD IT ALL BE A MISUNDER-STANDING?
I'M SURE EVERYBODY WANTS TO KNOW.

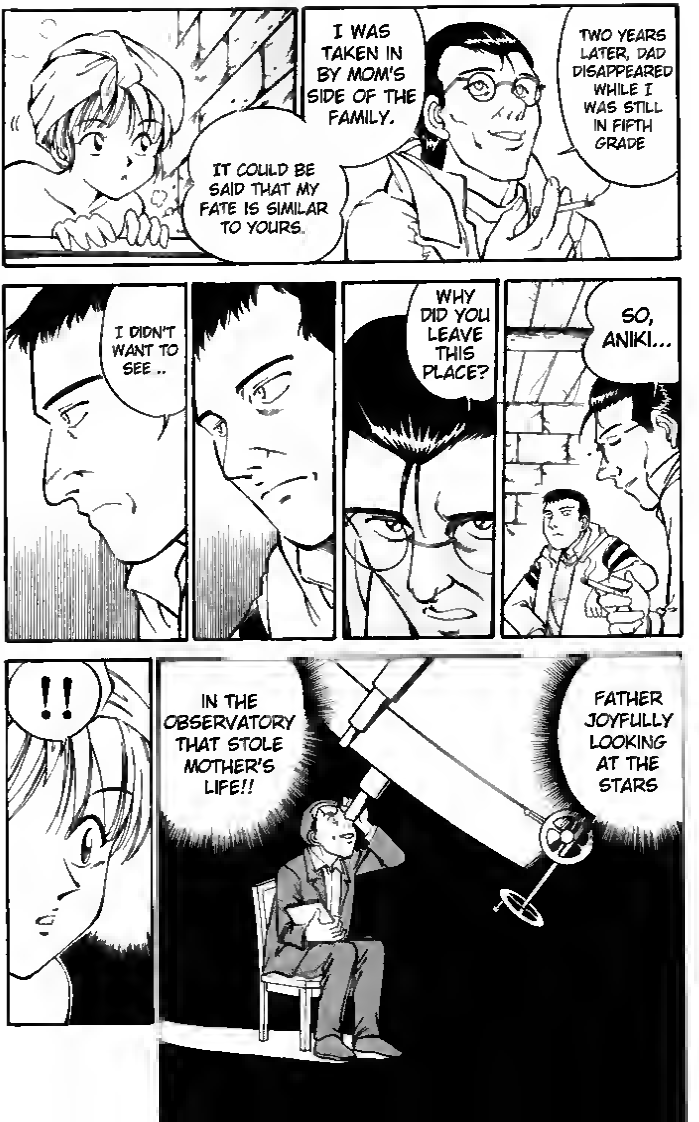

LET'S HAVE ANOTHER ONE..
IT'S ALMOST 8 O'CLOCK.
THIS IS SUCH A STRONG NORTHERN WIND, ISN'T IT?
ゴォォ
RRRUMBLE
?
SHUT UP! MY THROAT IS DRY!
HAVEN'T I TOLD YOU? SAKE WILL MAKE YOU THIRSTY.
ゴゴゴ
WHAT'S THIS SHAKING !?
IS IT AN AVA-LANCHE !?
BAM!
EARTH-QUAKE !?
ゴゴゴゴゴ
WHAT HAPP-ENED?
CLATTER CLATTER

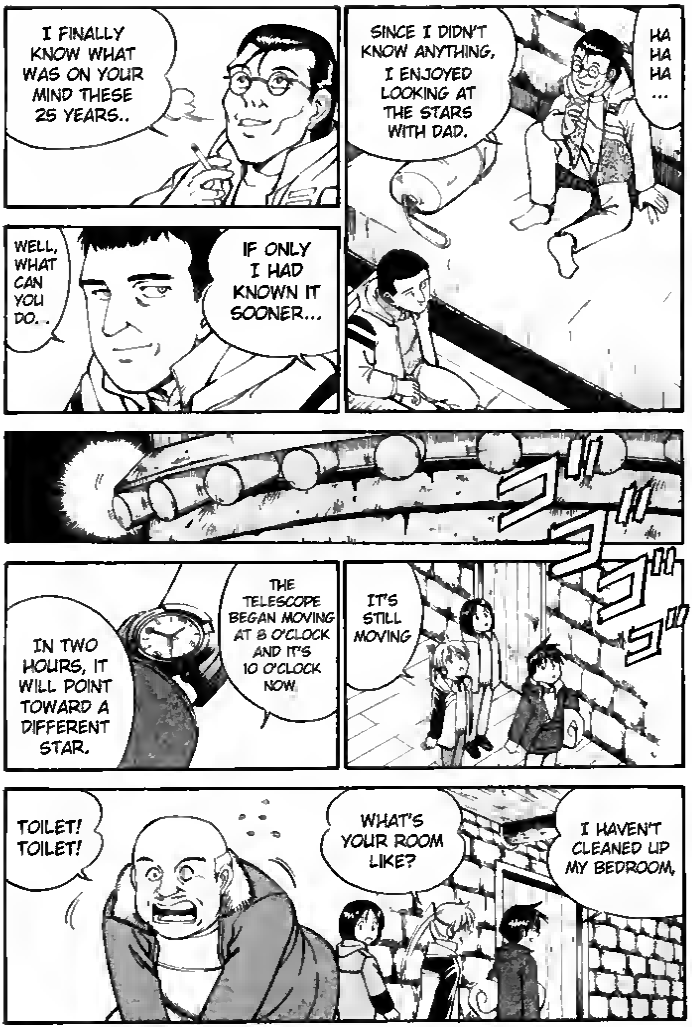
THE DOME IS OPENING!!
IT'S STARTING TO TURN!!
OOH !?
YES ...
ANIKI, COULD IT BE...
WHEN THE POWER WAS TURNED ON, THE TELESCOPE BEGAN SORTING THE REMAINING DATA
!?

CLICK
THE LIGHT OF DISTANT STARS IS VERY DIM BY THE TIME IT REACHES EARTH. IN ORDER TO STUDY IT...
WE HAVE TO PHOTOGRAPH IT FIRST BEFORE WE CAN ANALYZE IT.
WHAT DOES THAT MEAN?
Rotation
HUH...
HOWEVER, BECAUSE OF THE ROTATION OF THE EARTH, THE TELESCOPE'S DIRECTION HAS TO BE CHANGED IN ORDER TO KEEP STUDYING THE SAME STAR.
Inside a video camera
CCD
THESE DAYS, WE HAVE CCD① CHIPS THAT CAN PROCESS EVEN THE DIMMEST LIGHT.
IN THE OLD DAYS, WE HAD TO OPEN THE CAMERA SHUTTER TO TAKE A PHOTO.
SRET
long term lighting
HOW CAN WE SLEEP WITH SUCH AN ANNOYING NOISE!?
STOP THAT CONTRAPTION!!
AND CHASE A SINGLE STAR...
MAYBE FUKUTARO USED THIS REFLECTIVE TELESCOPE TO RESEARCH

ALRIGHT THEN!! LET'S GO INSIDE!!
THE RESEARCH WILL END AT 12 O'CLOCK.
UGH!
WE MUST NOT TAMPER WITH THE CRIME SCENE...
NO!
WHAT'S THE MATTER SEIICHI-KUN? LET'S GET IN..
JUST LIKE ALWAYS
HE HE... EVEN THOUGH WE'RE SNOWED IN, I CAN STILL ENJOY A RELAXING BATH


THIS ROOM MAKES IT FEEL LIKE IT'S 25 YEARS AGO...
TOO BAD THE WINDOW IS TOO SMALL; I CAN'T ENJOY THE BEAUTIFUL SNOW.
DID YOU MISS IT, TOO, ANIKI?
WELL ...
THEN I WENT TO NIGHT SCHOOL...
I STARTED A FAMILY... I WAS FOCUSED ON LIVING MY LIFE.
25 YEARS AGO SEEMS LIKE A MERE MOMENT IN TIME TO ME NOW.
I LEFT THIS PLACE AFTER I GRADUATED FROM JUNIOR HIGH...
I WAS STILL IN THE THIRD GRADE WHEN YOU LEFT.
THERE IS NO NOSTALGIA AT ALL.

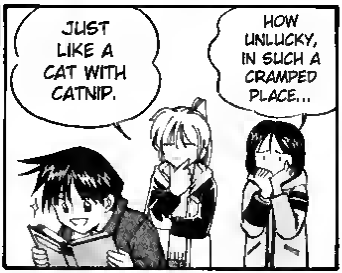

I WAS TAKEN IN BY MOM'S SIDE OF THE FAMILY.
TWO YEARS LATER, DAD DISAPPEARED WHILE I WAS STILL IN FIFTH GRADE
IT COULD BE SAID THAT MY FATE IS SIMILAR TO YOURS.
I DIDN'T WANT TO SEE ..
WHY DID YOU LEAVE THIS PLACE?
SO, ANIKI...
!!
IN THE OBSERVATORY THAT STOLE MOTHER'S LIFE!!
FATHER JOYFULLY LOOKING AT THE STARS


I FINALLY KNOW WHAT WAS ON YOUR MIND THESE 25 YEARS..
SINCE I DIDN'T KNOW ANYTHING, I ENJOYED LOOKING AT THE STARS WITH DAD.
HA HA HA ...
WELL, WHAT CAN YOU DO..
IF ONLY I HAD KNOWN IT SOONER...
ゴゴゴゴゴゴ
IN TWO HOURS, IT WILL POINT TOWARD A DIFFERENT STAR.
THE TELESCOPE BEGAN MOVING AT 8 O'CLOCK AND IT'S 10 O'CLOCK NOW.
IT'S STILL MOVING
TOILET! TOILET!
WHAT'S YOUR ROOM LIKE?
I HAVEN'T CLEANED UP MY BEDROOM.

WAH!!
CLICK

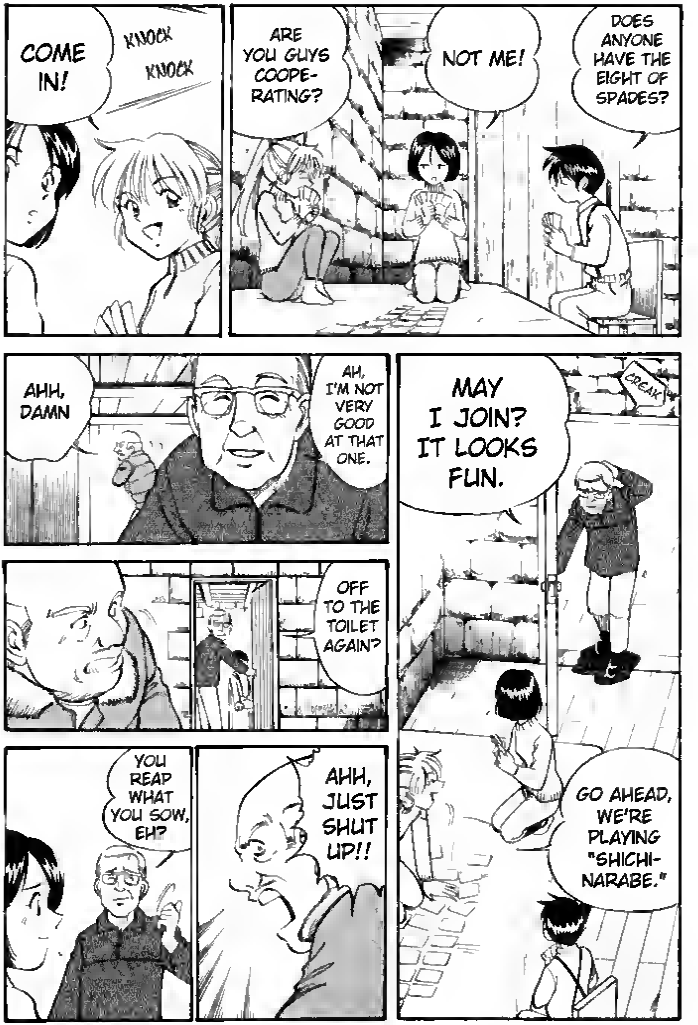
THIS IS PROBABLY A STORAGE ROOM FOR RESEARCH DATA AND DOCUMENTS.
OR A PLACE TO KEEP THE BOOKS?
WHAT'S THIS? A WARE-HOUSE...

CARDS!! LET'S PLAY A GAME!!
TA-DAH!!
TRUMP

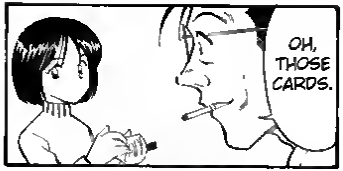

JUST LIKE A CAT WITH CATNIP.
HOW UNLUCKY, IN SUCH A CRAMPED PLACE...

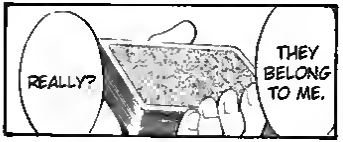
AH! LOOK!

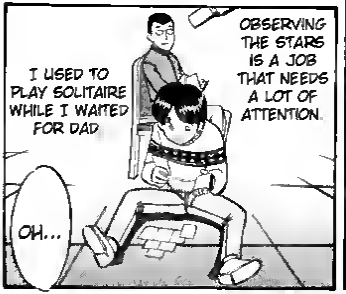
HITOMI
SHICHI-NARABE, ② SHICHI-NARABE!
TOILET! TOILET!
IT'S HIM AGAIN!
BRAK!
OKAY
IT'S GETTING LATE, GO TO SLEEP.
I CAN'T SLEEP PEACE-FULLY.
BUT MAYBE THIS IS THE LAST STUDY..
IT'S STILL MOVING.
IS IT ALREADY 12 O'-CLOCK?
UM... I USE MY 2ND PASS!!

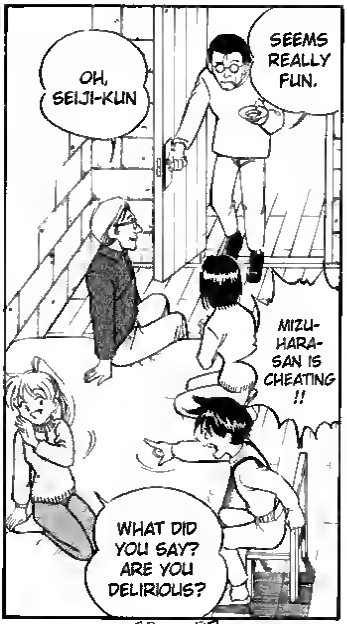

COME IN!
KNOCK KNOCK
ARE YOU GUYS COOPE-RATING?
NOT ME!
DOES ANYONE HAVE THE EIGHT OF SPADES?
AHH, DAMN
AH, I'M NOT VERY GOOD AT THAT ONE.
MAY I JOIN? IT LOOKS FUN.
CREAK
OFF TO THE TOILET AGAIN?
YOU REAP WHAT YOU SOW, EH?
AHH, JUST SHUT UP!!
GO AHEAD, WE'RE PLAYING "SHICHI-NARABE."

MUKAI-SAN IS ALSO AN ASTRONOMER LIKE GRANDPA, RIGHT?
WAH... I'M NOWHERE NEAR HIS CALIBER.
WE USED TO ATTEND THE SAME HIGH SCHOOL AND UNIVERSITY, AND WE BOTH LIKE ASTRONOMY AND SCIENCE FICTION.
TO BE HONEST, I REALLY ENVY HIM FOR BEING ABLE TO BUILD SUCH A BEAUTIFUL OBSERVATORY.
BUT THIS TELESCOPE, LEFT BEHIND BY ITS OWNER,
TRAVELLING THROUGH THE SNOWY, STAR-FILLED SKY ON ITS OWN...
HOW SAD...
WHAT A SHAME.
WOW! SHE GOT A JOKER!
HA HA HA
ONE MORE TIME!! ONE MORE TIME!!

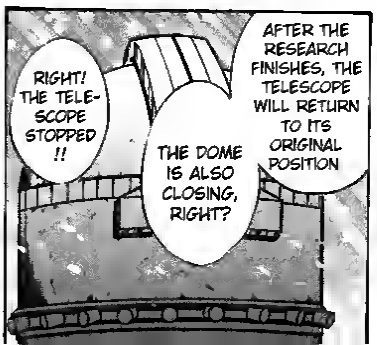

OH, THOSE CARDS.


THEY BELONG TO ME.
REALLY?


OBSERVING THE STARS IS A JOB THAT NEEDS A LOT OF ATTENTION.
I USED TO PLAY SOLITAIRE WHILE I WAITED FOR DAD
OH...


SEEMS REALLY FUN.
OH, SEIJI-KUN
MIZU-HARA-SAN IS CHEATING !!
WHAT DID YOU SAY? ARE YOU DELIRIOUS?

IT'S ALREADY 1 O'CLOCK, BUT IT'S STILL MOVING
AH...

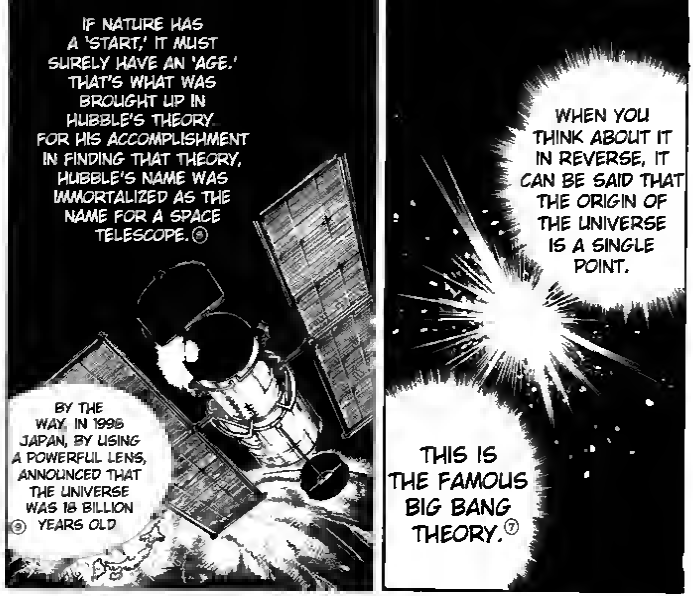

AFTER THE RESEARCH FINISHES, THE TELESCOPE WILL RETURN TO ITS ORIGINAL POSITION
THE DOME IS ALSO CLOSING, RIGHT?
RIGHT! THE TELE-SCOPE STOPPED !!

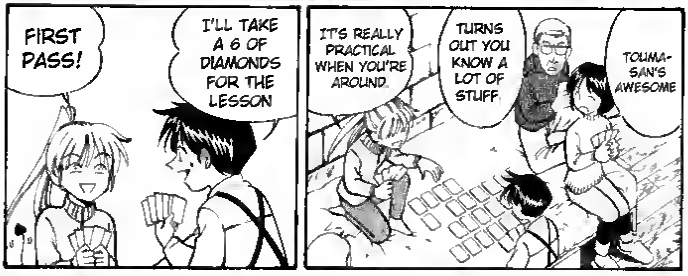
ゴゥンゴゥン
WAH!?

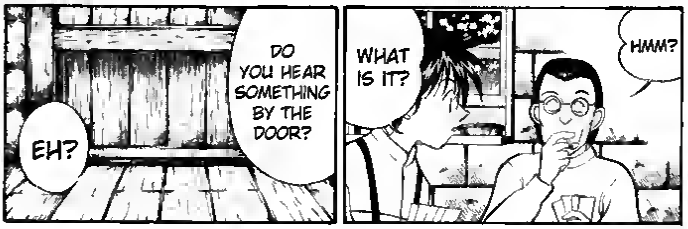
LET ME SIT BY THE WINDOW.
THAT WAY, THE SMOKE CAN GET OUT.
AH, SORRY.
COUGH
YOU WERE ALWAYS LOOKING AT THE STARS WITH FUKUTARO.
YOU MUST BE REALLY CLOSE WITH THIS PLACE.
ME?
I GUESS YOU WILL INHERIT THIS PLACE, SEIJI-KUN.
...THAT'S RIGHT...

IN THE NIGHT SKY, STARS ARE INVISIBLE
IN TRUTH, THE CONSTELLATIONS ARE FORMED OF MERE SPECKS OF LIGHT
IT'S ASTONISHING ...
WORKING PURELY LIKE BRAHE AND HUBBLE.
I CAN'T BE LIKE DAD - STUDYING, PHOTOGRAPHING, AND CATALOGUING THE STARS EVERY DAY.
HA HA HA... I WON'T BE LIKE THAT.
PEOPLE WHO THINK LIKE THAT USUALLY GET CAUGHT UP IN IT, YOU KNOW.
BRAHE AND HUBBLE?

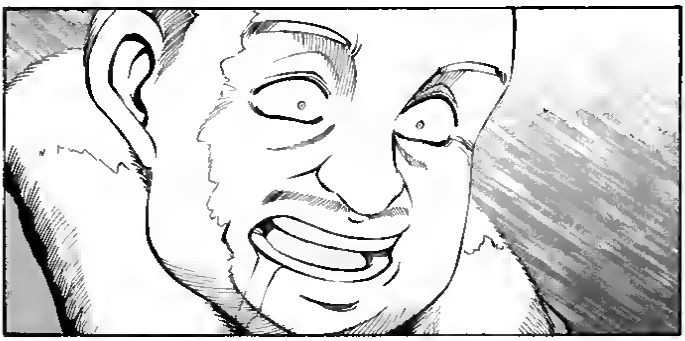
TYCHO BRAHE IS A FAMOUS DANISH ASTRONOMER OF THE 16TH CENTURY.
TELESCOPES WEREN'T AROUND IN THAT ERA, SO HE OBSERVED THE STARS WITH JUST THE NAKED EYE.
EDWIN HUBBLE ⑤ WAS AN AMERICAN ASTRONOMER WHO INVESTIGATED THE OBSERVED DISTANCES AND SPEEDS OF GALAXIES VISIBLE IN THE NIGHT SKY.
AT THAT TIME, HIS RESEARCH DATA WAS SAID TO BE THE MOST ACCURATE. ③
WITHOUT HIS DETAILED OBSERVATIONS OF UNPRECEDENTED ACCURACY, KEPLER COULDN'T HAVE DISCOVERED THAT PLANETS MOVE IN ELLIPTICAL ORBITS AND FOUND HIS FAMOUS LAWS. ④
IN SHORT, THE UNIVERSE IS EXPANDING!
AS IF WE'RE STRETCHING A RUBBER BAND.
FURTHERMORE, HE DISCOVERED THAT THE GREATER THE DISTANCE BETWEEN THE GALAXIES, THE GREATER THEIR RELATIVE SPEED OF SEPARATION! ⑥
EARTH
FAST
FAST


IF NATURE HAS A 'START,' IT MUST SURELY HAVE AN 'AGE.' THAT'S WHAT WAS BROUGHT UP IN HUBBLE'S THEORY. FOR HIS ACCOMPLISHMENT IN FINDING THAT THEORY, HUBBLE'S NAME WAS IMMORTALIZED AS THE NAME FOR A SPACE TELESCOPE. ⑥
BY THE WAY, IN 1998 JAPAN, BY USING A POWERFUL LENS, ANNOUNCED THAT THE UNIVERSE WAS 18 BILLION ⑨ YEARS OLD
WHEN YOU THINK ABOUT IT IN REVERSE, IT CAN BE SAID THAT THE ORIGIN OF THE UNIVERSE IS A SINGLE POINT.
THIS IS THE FAMOUS BIG BANG THEORY. ⑦

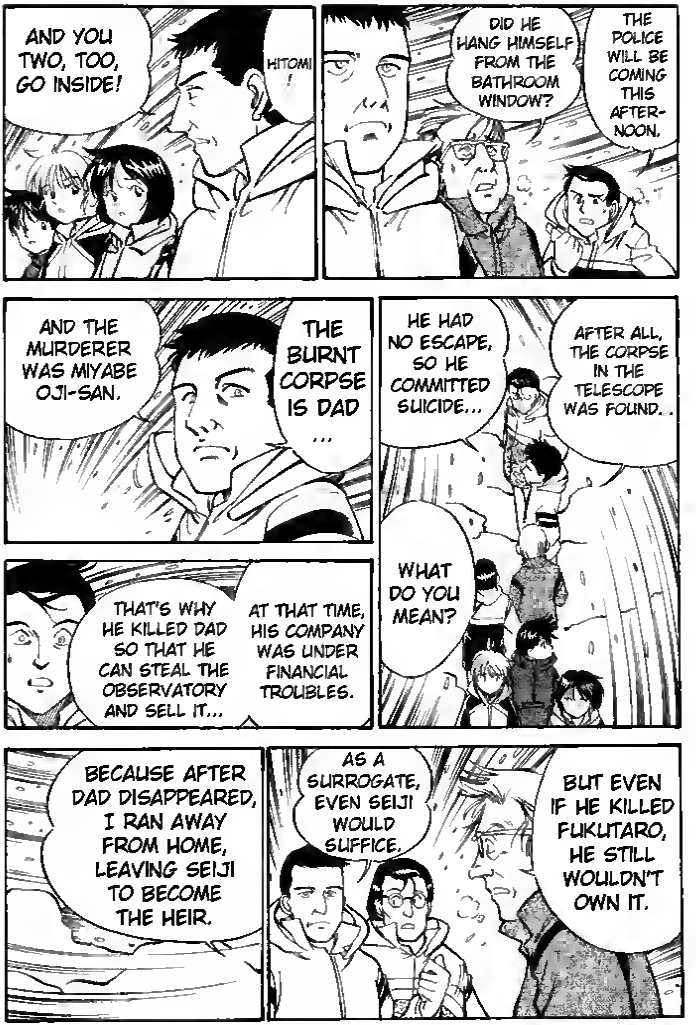

FIRST PASS!
I'LL TAKE A 6 OF DIAMONDS FOR THE LESSON
IT'S REALLY PRACTICAL WHEN YOU'RE AROUND.
TURNS OUT YOU KNOW A LOT OF STUFF.
TOUMA-SAN'S AWESOME


EH?
DO YOU HEAR SOMETHING BY THE DOOR?
WHAT IS IT?
HMM?

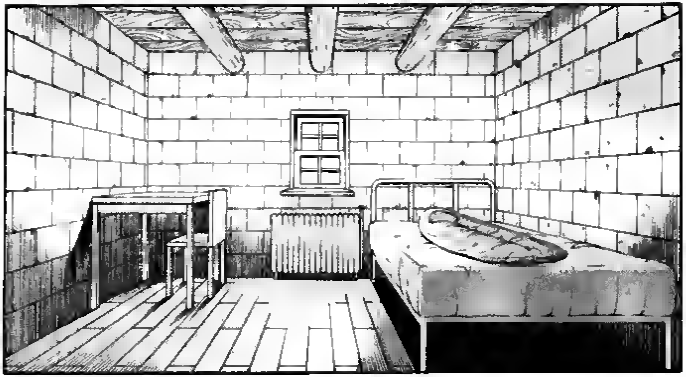
SOMEONE'S IN THE BATHROOM.
BRAK
KUEK
SEEMS LIKE IT'S ALREADY BECOME FLOUR.
IF HE CONTINUES LIKE THIS, ALL HIS BODY FLUID WILL SEEP OUT AND HE'LL BE JUST LIKE DRIED FISH..
IT'S MIYABE-SAN AGAIN.



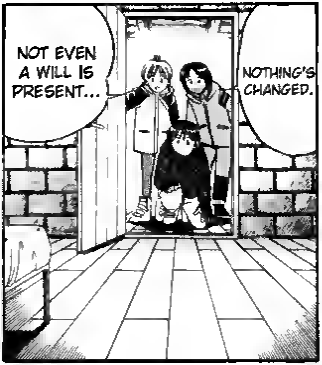
GYAAAAAAAAAA!!
.....
YES! I UNDER-STAND!
I'LL LEAVE IT IN PLACE.

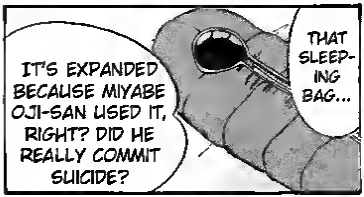

AND YOU TWO, TOO, GO INSIDE!
HITOMI
DID HE HANG HIMSELF FROM THE BATHROOM WINDOW?
THE POLICE WILL BE COMING THIS AFTER-NOON.
AND THE MURDERER WAS MIYABE OJI-SAN.
THE BURNT CORPSE IS DAD ...
HE HAD NO ESCAPE, SO HE COMMITTED SUICIDE...
AFTER ALL, THE CORPSE IN THE TELESCOPE WAS FOUND..
WHAT DO YOU MEAN?
THAT'S WHY HE KILLED DAD SO THAT HE CAN STEAL THE OBSERVATORY AND SELL IT...
AT THAT TIME, HIS COMPANY WAS UNDER FINANCIAL TROUBLES.
BECAUSE AFTER DAD DISAPPEARED, I RAN AWAY FROM HOME, LEAVING SEIJI TO BECOME THE HEIR.
AS A SURROGATE, EVEN SEIJI WOULD SUFFICE.
BUT EVEN IF HE KILLED FUKUTARO, HE STILL WOULDN'T OWN IT.

SO FOR SEVEN YEARS UNTIL THE DECLARATION OF DEATH HE WOULDN'T BE ABLE TO GET IT.
BUT DAD WAS SAID TO HAVE DISAPP-EARED, INSTEAD OF MURDERED ...
AT THAT TIME, SEIJI WAS STILL A CHILD. MIYABE OJI-SAN VOLUNTEERED TO TAKE CARE OF HIM IN ORDER TO GET THE OBSERVATORY.
I SEE! TO THAT EXTENT...
THAT'S RIGHT, IT FITS PERFECTLY!
THEN IN THOSE SEVEN YEARS, THE OBSERVATORY WAS ABANDONED AND BECAME WORTHLESS.
WE CAN'T GO IN BEFORE THE POLICE GET HERE!
HEY! THAT'S MIYABE -SAN'S ROOM!
HOW IS THIS? IT SEEMS THAT THE CASE GOT MUCH WEIRDER.
KIIT
I JUST WANT TO LOOK AROUND FOR A BIT
TREK
DON'T WORRY, I'M NOT GONNA LEAVE ANY FINGER-PRINTS.



EH?
STRANGE..


NOT EVEN A WILL IS PRESENT...
NOTHING'S CHANGED.


IT'S EXPANDED BECAUSE MIYABE OJI-SAN USED IT, RIGHT? DID HE REALLY COMMIT SUICIDE?
THAT SLEEPING BAG...

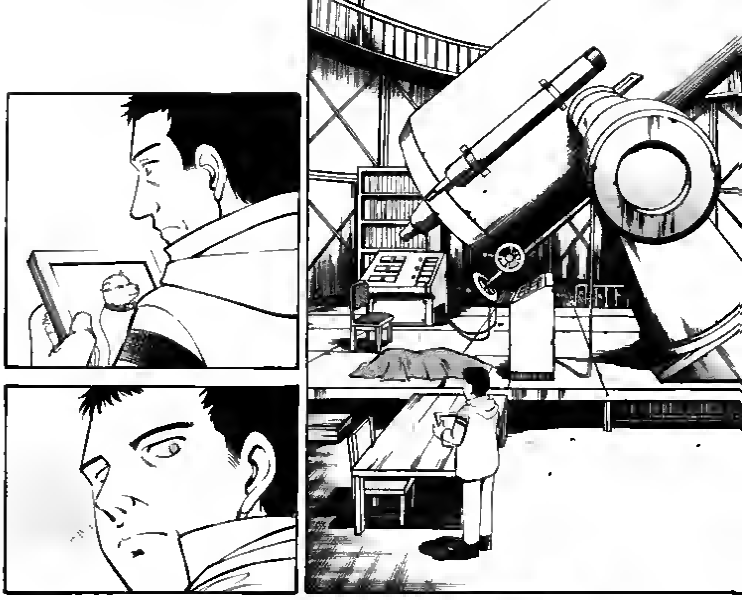
NO... LOOK CLOSELY.

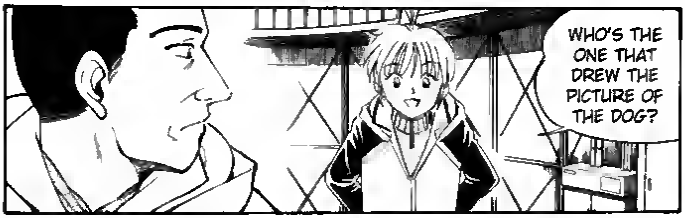
MAYBE HE HAD AN ATTACK OF CONSCIENCE AFTER HE GOT IN THE SLEEPING BAG, AND THEN DECIDED TO COMMIT SUICIDE...

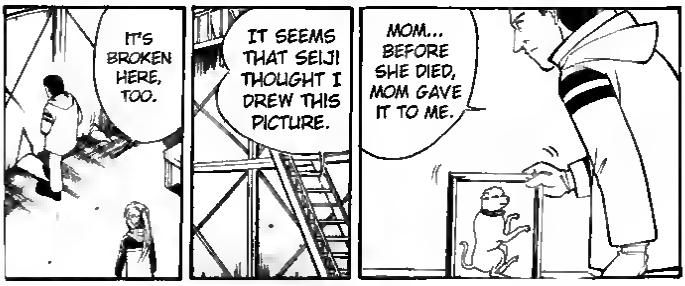
SO EVEN THOUGH IT WAS USED ONLY ONCE, THE BAG WAS LEFT UNROLLED.
ONCE THE SLEEPING BAG IS USED, IT USUALLY ISN'T ZIPPED UP UNTIL IT'S TIME TO PUT IT AWAY.
OPEN
CLOSE
THE BAG'S ZIPPER IS PULLED UP, RIGHT?
SO WHAT?
THAT MEANS THAT MIYABE-SAN PLANNED TO SLEEP AND PUT AWAY HIS SLEEPING BAG, BUT THEN COMMITTED SUICIDE.
IN OTHER WORDS, IT'S POSSIBLE THAT THE CORPSE WAS CARRIED ALONG BY THE DOME'S ROTATION!!
THE ROPE AROUND HIS NECK WAS HUNG AT THE TOP PART OF THE DOME,
ONE MORE THING...

BUT IT'S STRA-NGE!
EH?
AH!
AT 1 O'CLOCK, AFTER THE DOME STOPPED ROTATING, WE STILL SAW MIYABE-SAN GOING INTO THE BATHROOM.
ハグニ
THAT MEANS HE DIED AFTER THE DOME STOPPED ROTATING, SO IT'S IMPOSSIBLE THAT HIS CORPSE ROTATED, TOO.
EH?
WHAT WAS I DOING AT MIDNIGHT?
I WENT TO SLEEP AT 12 O'CLOCK.
THE 'SHICHI-NARABE' GAME HAS UNLEASHED MY TRUE POTENTIAL
EH? SINCE WHEN DID YOU BECOME THIS SMART?
?
YEAH, YEAH
WELL THEN, WHILE THE CONDITIONS ARE LIKE THIS...
Psst Psst

UM... AFTER LEAVING YOUR ROOM,
?
THANK YOU VERY MUCH.
I LAST SAW MIYABE-SAN AWAKE AT 8 O'CLOCK.
YOU USED TO STUDY STARS WITH YOUR FATHER, RIGHT?
DURING THAT TIME, WE DIDN'T SEE ANYONE PASSING US.
I CHATTED WITH MUKAI-SAN IN THE DINING ROOM UNTIL ABOUT 3 O'CLOCK IN THE MORNING.
WHAT STARS DO YOU REMEMBER?
ANIKI IS THE ONE WHO SUGGESTED I LOOK AT IT.
SIRIUS



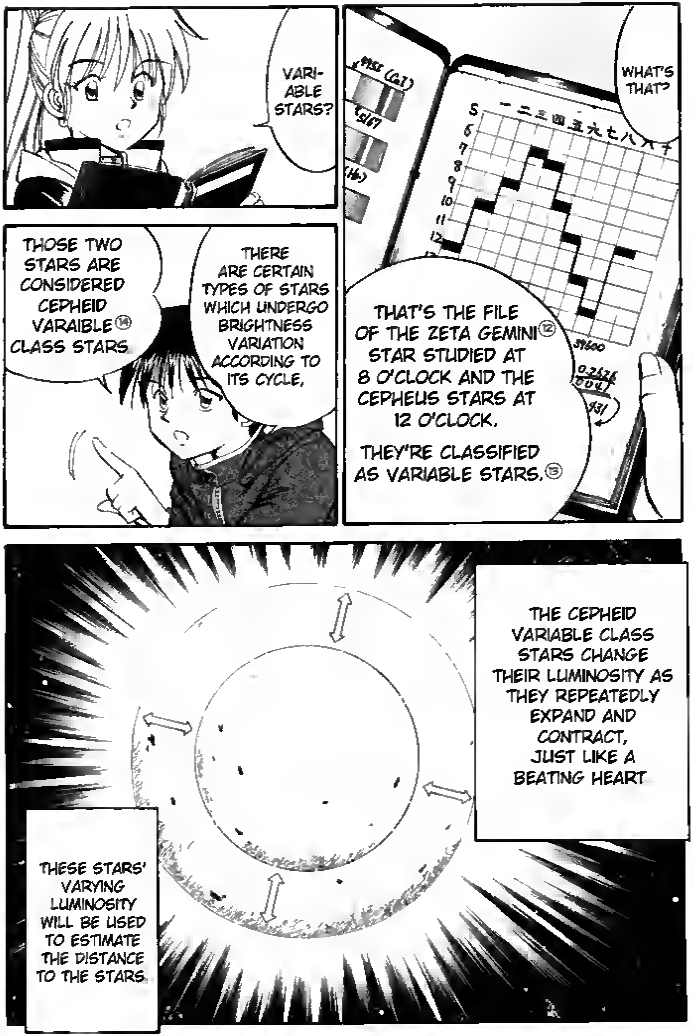

WHO'S THE ONE THAT DREW THE PICTURE OF THE DOG?


IT'S BROKEN HERE, TOO.
IT SEEMS THAT SEIJI THOUGHT I DREW THIS PICTURE.
MOM... BEFORE SHE DIED, MOM GAVE IT TO ME.

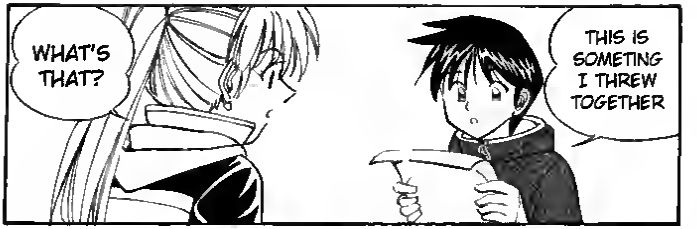
THE DOME ROTATED AT MIDNIGHT...
I WONDER WHAT THE ROTATION WAS LIKE.
THE SNOW CAME IN THROUGH THE HOLE IN THIS WALL..
THAT MEANS IT CAME FROM THE NORTHERN HOLES.
EH? THERE IS NO SNOW COMING IN FROM THE SOUTHERN HOLES.
NOTHING HAPPENED. I WENT TO SLEEP AT 12 O'CLOCK.
NOT REALLY
DO YOU NEED SOME-THING ?
SEIICHI-SAN, LAST NIGHT YOU WENT BACK TO YOUR ROOM EARLY, RIGHT? DID ANYTHING HAPPEN?

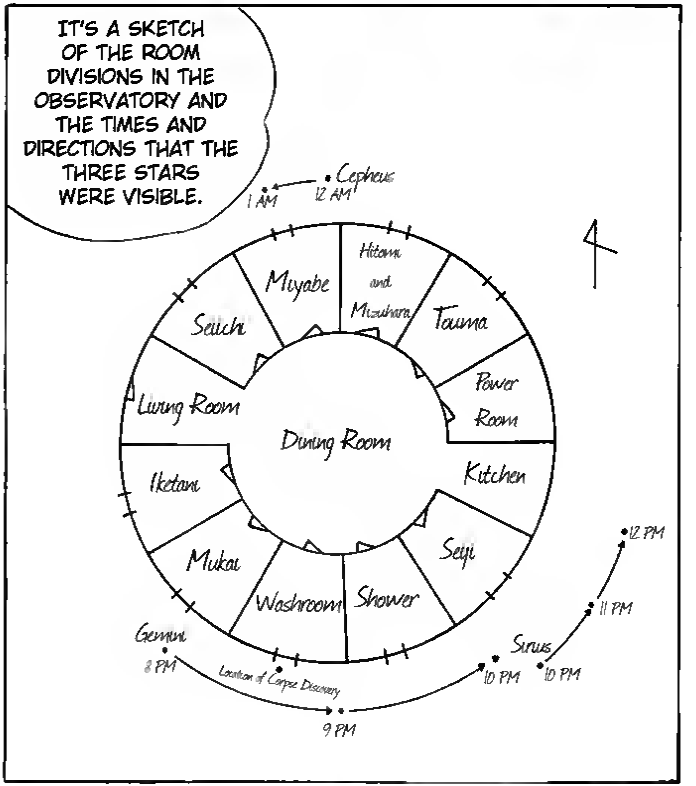
TREK
WHAT ARE THOSE TWO DOING? WHISPERING ALL THE TIME...
MIYABE-SAN MUST HAVE BEEN THE ONE WHO CLOSED THE BATHROOM DOOR, BECAUSE NO ONE ELSE WENT IN THERE AT 1 O'CLOCK.
SEIJI-SAN AND MUKAI-SAN WERE IN THE DINING ROOM UNTIL 3 O'CLOCK, AND THEY SAY THEY DIDN'T SEE ANYONE OPENING THE DOOR...
THAT MEANS MIYABE-SAN REALLY DID COMMIT SUICIDE.
BUT THEY ALL WENT TO SLEEP AFTERWARDS, DO YOU THINK SOMETHING HAPPENED AFTER 3 O'CLOCK?
THAT'S IMPOS-SIBLE...

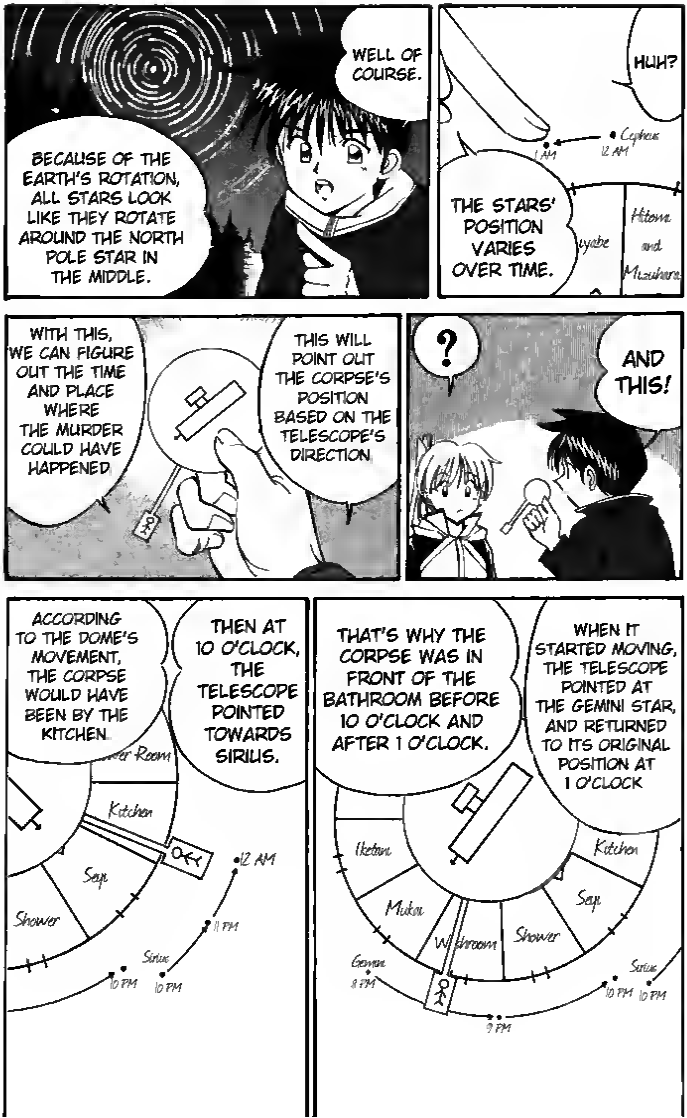
AFTER 1 O'CLOCK WE SAW THE BATHROOM DOOR WAS CLOSED. BY 3 O'CLOCK, 2 HOURS HAD PASSED WITH NO TRACE OF ANYONE ENTERING...
MIYABE-SAN WENT BACK AND FORTH TO THE BATHROOM FOR ABOUT 30 MINUTES.
BUT THERE'S ANOTHER POSSIBILITY.
IT APPEARS THAT THE ONLY POSSIBILITY IS THAT HE COMMITTED SUICIDE...
THERE ARE NO SNOWY FOOTPRINTS AT THE CRIME SCENE, SO IT'S UNLIKELY THAT THAT THE CULPRIT CAME IN FROM OUTSIDE.
I'VE CHECKED WHICH STARS IT RESEARCHED ...
IN CONCLUSION, IT WAS THESE THREE STARS IN THESE THREE FILES.
LAST NIGHT THE OBSERVATORY SHIFTED ITS POSITION AT 8 O'CLOCK, 10 O'CLOCK, AND 12 O'CLOCK, AND RETURNED TO ITS ORIGINAL POSITION AT 1 O'CLOCK.
WHERE, WHERE?
THAT MEANS THERE ARE THREE STARS THAT WERE STUDIED.

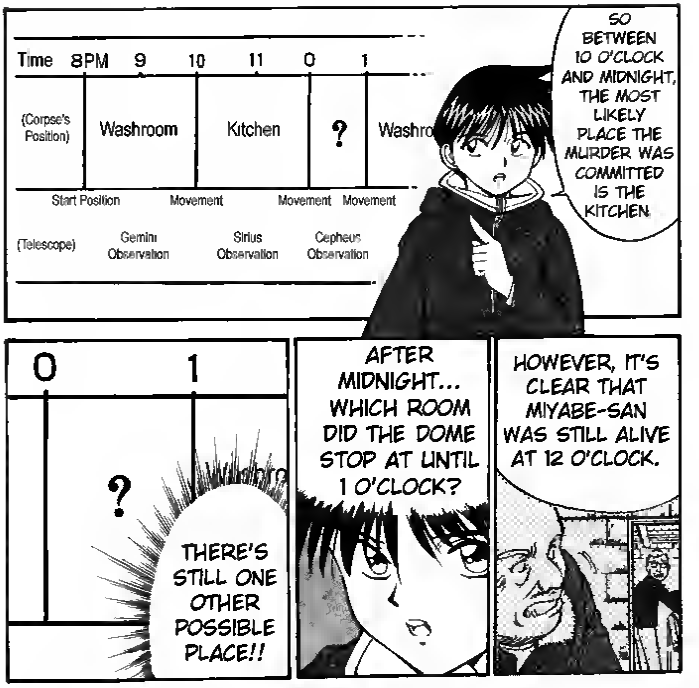

VARIABLE STARS?
WHAT'S THAT?
THAT'S THE FILE OF THE ZETA GEMINI⑫ STAR STUDIED AT 8 O'CLOCK AND THE CEPHEUS STARS AT 12 O'CLOCK.
THEY'RE CLASSIFIED AS VARIABLE STARS.⑬
THERE ARE CERTAIN TYPES OF STARS WHICH UNDERGO BRIGHTNESS VARIATION ACCORDING TO ITS CYCLE.
THOSE TWO STARS ARE CONSIDERED CEPHEID VARAIBLE⑭ CLASS STARS.
THE CEPHEID VARIABLE CLASS STARS CHANGE THEIR LUMINOSITY AS THEY REPEATEDLY EXPAND AND CONTRACT, JUST LIKE A BEATING HEART.
THESE STARS' VARYING LUMINOSITY WILL BE USED TO ESTIMATE THE DISTANCE TO THE STARS.

!
SO THE FILE OF THE STAR RESEARCHED AT 10 O'CLOCK?
IT'S POS-SIBLE.
SO, FUKUTARO MEASURED STAR DISTANCES?
SIRIUS?
BUT SIRIUS IS WRITTEN ON THE COVER.
Sirius
EMPTY?
NO, THIS ONE IS DIFFERENT.
IS THIS ALSO A CEPHEID VARIABLE CLASS STAR?
ACTUALLY, SIRIUS IS A STAR IN CANIS MAJOR.
WASN'T THERE A PICTURE OF A DOG PLACED IN THIS FILE?
BUT THIS IS THE ONE SEIJI-SAN SAW
HM. .
WHY DID HE SEE IT?


WHAT'S THAT?
THIS IS SOMETING I THREW TOGETHER


IT'S A SKETCH OF THE ROOM DIVISIONS IN THE OBSERVATORY AND THE TIMES AND DIRECTIONS THAT THE THREE STARS WERE VISIBLE.
Cepheus
1 AM
12 AM
Hitomi and Mizuhara
Tauma
Power Room
Kitchen
Seiji
Shower
Washroom
Muku
Iketani
Living Room
Seiichi
Miyabe
Dining Room
12 PM
11 PM
Sirius
10 PM
10 PM
Location of Corpse Discovery
9 PM
Gemini
8 PM


WELL OF COURSE.
BECAUSE OF THE EARTH'S ROTATION, ALL STARS LOOK LIKE THEY ROTATE AROUND THE NORTH POLE STAR IN THE MIDDLE.
HUH?
Cygnus
12 AM
1 AM
THE STARS' POSITION VARIES OVER TIME.
Hitomi and Mizuhara
WITH THIS, WE CAN FIGURE OUT THE TIME AND PLACE WHERE THE MURDER COULD HAVE HAPPENED.
THIS WILL POINT OUT THE CORPSE'S POSITION BASED ON THE TELESCOPE'S DIRECTION.
?
AND THIS!
ACCORDING TO THE DOME'S MOVEMENT, THE CORPSE WOULD HAVE BEEN BY THE KITCHEN.
THEN AT 10 O'CLOCK, THE TELESCOPE POINTED TOWARDS SIRIUS.
Kitchen
Sap
Shower
12 AM
11 PM
Sirius
10 PM
10 PM
THAT'S WHY THE CORPSE WAS IN FRONT OF THE BATHROOM BEFORE 10 O'CLOCK AND AFTER 1 O'CLOCK.
WHEN IT STARTED MOVING, THE TELESCOPE POINTED AT THE GEMINI STAR, AND RETURNED TO ITS ORIGINAL POSITION AT 1 O'CLOCK
Hiroto
Kitchen
Muku
Sap
W'broom
Shower
Gemini
8 PM
Sirius
10 PM
10 PM
9 PM


Time 8PM 9 10 11 0 1
(Corpse's Position)
Washroom
Kitchen
?
Washro
Start Position
Movement
Movement
Movement
(Telescope)
Gemini Observation
Sirius Observation
Cepheus Observation
SO BETWEEN 10 O'CLOCK AND MIDNIGHT, THE MOST LIKELY PLACE THE MURDER WAS COMMITTED IS THE KITCHEN.
0
1
?
THERE'S STILL ONE OTHER POSSIBLE PLACE!!
AFTER MIDNIGHT... WHICH ROOM DID THE DOME STOP AT UNTIL 1 O'CLOCK?
HOWEVER, IT'S CLEAR THAT MIYABE-SAN WAS STILL ALIVE AT 12 O'CLOCK.
!!
AT MIDNIGHT, THE TELESCOPE POINTED NORTH TO CEPHEUS...
Cepheus
1 AM
12 AM
Miyabe
Hitomi and Mizuhara
Tauma
Room
Kitchen

THIS!!
BUT HOW?
WAIT! IT DOESN'T MEAN THAT THE ORIGINAL SCENARIO WHERE MIYABE-SAN COMMITTED SUICIDE IS ELIMINATED.
CALM DOWN AND OBSERVE CAREFULLY.
THERE'S GOT TO BE SOMETHING THAT CONNECTS IT ALL TOGETHER.
WHY DO THE INCIDENTS KEEP HAPPENING AT THIS OBSERVATORY?
WHAT DO YOU WANT TO SHOW ME?
THE SNOW IN THE DOME.
TAP TAP
TREK

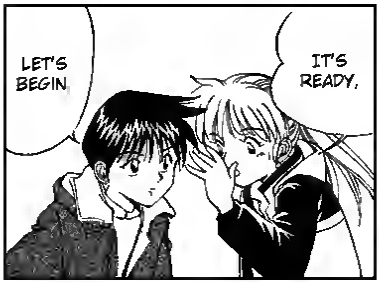
I WONDER WHAT MIZUHARA-SAN SAW...?
!!
A PHONE CALL FROM THE POLICE?
THEY'LL BE HERE WITHIN AN HOUR.
THAT IS FAST.
.....

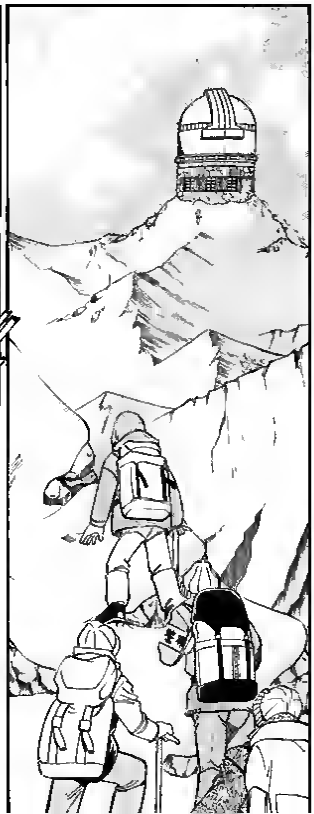
THIS IS A TRAGEDY
LEFT BEHIND BY THE RUSTING OBSER-VATORY ...
WHAT'S LOST IS A HUMAN LIFE.
HOWEVER ...
LET THE PAST SHED LIGHT!!
WHY WAS THE CORPSE FOUND INSIDE THE TELESCOPE !?
WHY IS IT SAID THAT TAEKO COMMITTED SUICIDE AT THIS PLACE!?
AND WHY WAS THE CORPSE BURNT?

WHY DID MIYABE-SAN DIE!?
RUN AWAY, DAD!!
DAD...
THE POLICE WILL BE COMING SHORTLY!
PLEASE! RUN, DAD!
DAD !!

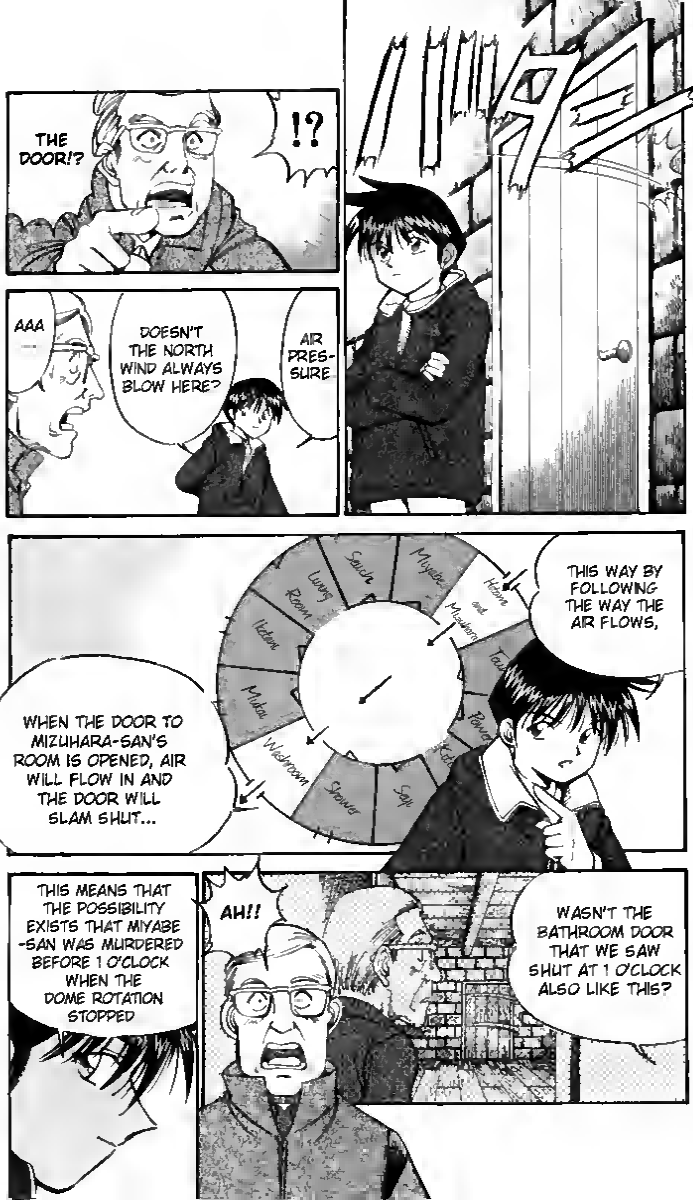
Q.E.D.
SRET

WE'RE ALMOST THERE!!
THAT'S THE OBSER-VATORY!!


LET'S BEGIN.
IT'S READY.

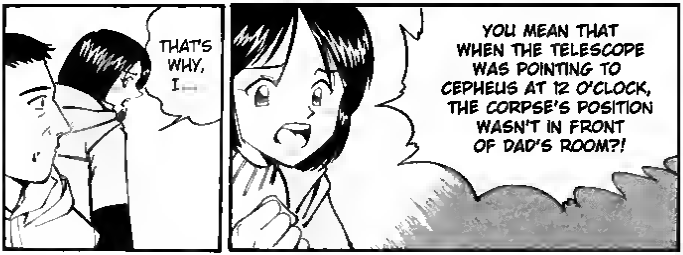


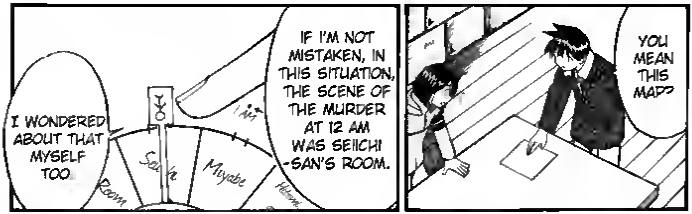
MUKAI-SAN, CAN YOU COME HERE FOR A BIT?
WHAT IS IT?
IN THE BATH-ROOM,
?
CLICK
THIS WAY THE BATHROOM WINDOW IS OPENED AND THE DOOR IS OPENED HALFWAY
MIZU-HARA -SAN, IF YOU PLEASE.
CLICK
AND THEN IF THE DOOR OF OUR ROOM IS OPENED,

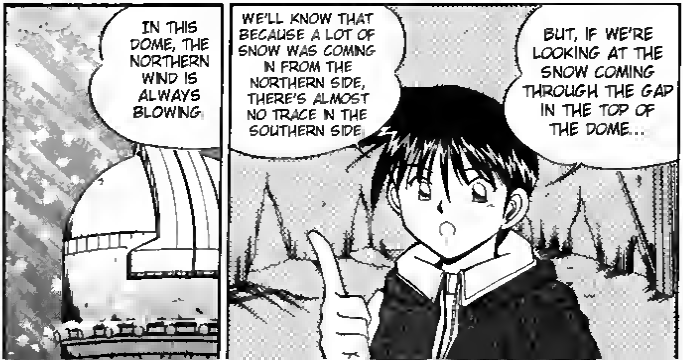

THE DOOR!?
!?
AAA
DOESN'T THE NORTH WIND ALWAYS BLOW HERE?
AIR PRES-SURE
THIS WAY BY FOLLOWING THE WAY THE AIR FLOWS,
WHEN THE DOOR TO MIZUHARA-SAN'S ROOM IS OPENED, AIR WILL FLOW IN AND THE DOOR WILL SLAM SHUT...
Sauna
Miyabe
Hiiragi and Miyabe
Tatami
Powder Room
Sink
Soap
Shower
Washroom
Mizuhara
Hiiragi
Lunch Room
THIS MEANS THAT THE POSSIBILITY EXISTS THAT MIYABE -SAN WAS MURDERED BEFORE 1 O'CLOCK WHEN THE DOME ROTATION STOPPED
AH!!
WASN'T THE BATHROOM DOOR THAT WE SAW SHUT AT 1 O'CLOCK ALSO LIKE THIS?

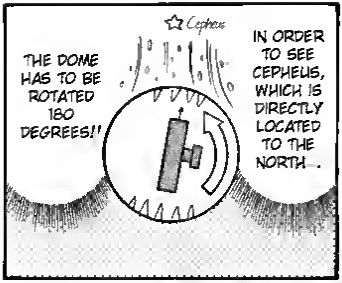
THE ONE WHO MADE MIYABE-SAN GO BACK AND FORTH TO THE BATHROOM!
THE ONE WHO UNDERSTANDS WHAT'S INSIDE THIS BUILDING!
SO... WHO'S THE ONE THAT PREPARED THIS TRICK?
AND THE PERSON WHO OPENED THE WINDOW IN MIZUHARA-SAN'S ROOM, IN ORDER TO SHUT THE BATHROOM DOOR WITH WIND PRESSURE!!
I'M COMING!
THE MURDERER CALLED MIYABE-SAN TO HIS ROOM.
SHUT UP!!
GOING TO THE BATH-ROOM AGAIN?
LAST NIGHT AT 12 AM ...
USING THE ROTATION TO MOVE THE CORPSE TO OUTSIDE THE BATHROOM WINDOW, MAKING IT LOOK LIKE A SUICIDE.
THEN HE HUNG HIM UNDER A PART OF THE DOME...
AND THEN MURDERED HIM!!

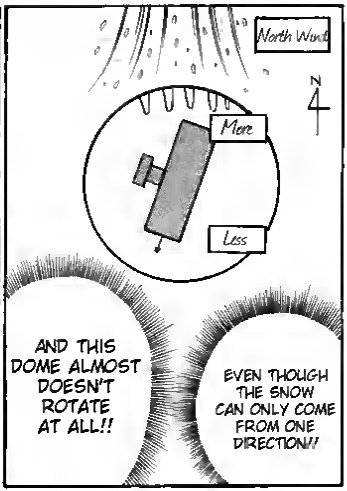
SO THE MAP THAT TOUMA-SAN DREW?
WAIT A MINUTE!!
AND USED THE BATHROOM DOOR TRICK TO MAKE IT SEEM THAT MIYABE-SAN WAS STILL ALIVE AT 1 O'CLOCK.


THAT'S WHY, I...
YOU MEAN THAT WHEN THE TELESCOPE WAS POINTING TO CEPHEUS AT 12 O'CLOCK, THE CORPSE'S POSITION WASN'T IN FRONT OF DAD'S ROOM?!

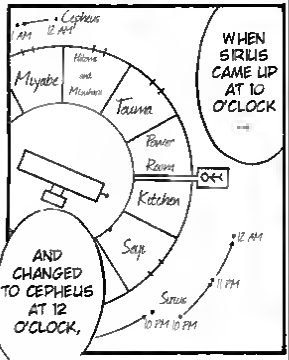

I WONDERED ABOUT THAT MYSELF TOO.
IF I'M NOT MISTAKEN, IN THIS SITUATION, THE SCENE OF THE MURDER AT 12 AM WAS SEIICHI-SAN'S ROOM.
YOU MEAN THIS MAP?


IN THIS DOME, THE NORTHERN WIND IS ALWAYS BLOWING.
WE'LL KNOW THAT BECAUSE A LOT OF SNOW WAS COMING IN FROM THE NORTHERN SIDE, THERE'S ALMOST NO TRACE IN THE SOUTHERN SIDE.
BUT, IF WE'RE LOOKING AT THE SNOW COMING THROUGH THE GAP IN THE TOP OF THE DOME...


Cepheus
THE DOME HAS TO BE ROTATED 180 DEGREES!!
IN ORDER TO SEE CEPHEUS, WHICH IS DIRECTLY LOCATED TO THE NORTH...


North Wind
N
More
Less
EVEN THOUGH THE SNOW CAN ONLY COME FROM ONE DIRECTION!!
AND THIS DOME ALMOST DOESN'T ROTATE AT ALL!!
WHY?
HOW DO WE EXPLAIN THIS SITUATION!?

AH!!

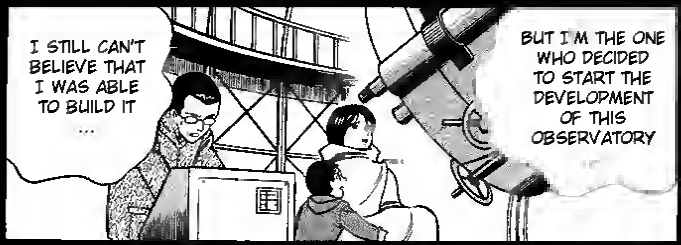

Cepheus
12 AM
Miyabe
Hitomi and Misuhiro
Tauma
Power Room
Kitchen
Sap
WHEN SIRIUS CAME UP AT 10 O'CLOCK
AND CHANGED TO CEPHEUS AT 12 O'CLOCK,
12 AM
11 PM
Sirius
10 PM
10 PM

THAT'S EASY!!
NOT ONLY DOES THE DOME ROTATE, BUT THE TELESCOPE'S POSITION IS ALSO CHANGED SO IT FACES THE OPPOSITE DIRECTION

Cepheus
1 AM
12 AM
Miyabe
Hitomi and Mizuhara
THE SCENE OF THE CRIME
SO THE POSITION OF CEPHEUS THAT CHANGED AT 12 O'CLOCK REVEALS...
Miyabe
THE TELESCOPE IS MOVED INTO THE OPPOSITE POSITION
Kitchen
Seiji
Shower
Washroom
Mukai
Power
Kitchen
IS IN SEIJI TSUKISHIMA -SAN'S ROOM.

ISN'T IT POSSIBLE THAT UNCLE COMMITTED SUICIDE?
THAT'S JUST CIRCUM-STANTIAL EVIDENCE,
WHAT HAPPENED WHEN TAEKO-SAN DIED?
THIS INCIDENT IS IN THE MOTIVE OF THE CASE THAT I WILL NOW EXPLAIN.
30 YEARS AGO, YOUR MOTHER WAS SAID TO HAVE COMMITTED SUICIDE IN THIS PLACE
HOW DID SHE DO IT?
HOW IS IT POSSIBLE, THAT TAEKO-SAN WITH HER HEART CONDITION, CLIMBED ALL THE WAY UP THE MOUNTAIN?
THAT'S A STRANGE STORY,
WAIT, DAD!! SEIJI IS HEAVY!
WHAT WOULD TAEKO-SAN WANT? EVEN THOUGH SHE KNEW THAT HER LIFE WAS IN DANGER!?
WHO BROUGHT TAEKO-SAN TO THE TOP OF THE MOUNTAIN!?

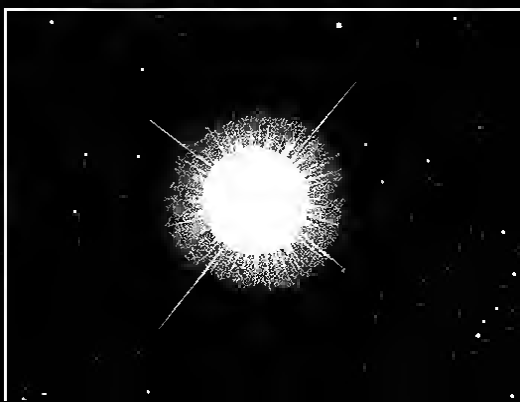
PLEASE DON'T APOLOGIZE
I'M SORRY ...
JUST A BIT MORE!! YOU CAN ALREADY SEE THE OBSER-VATORY!!
FOR ASKING FOR THIS.
SORRY ...
UKH!!
UNTIL NOW, I ALWAYS HAD TO OBEY, ALWAYS STAYING IN THE HOUSE,
JUST LIKE A DOLL


I STILL CAN'T BELIEVE THAT I WAS ABLE TO BUILD IT ...
BUT I'M THE ONE WHO DECIDED TO START THE DEVELOPMENT OF THIS OBSERVATORY

JUST LIKE A DREAM ...

SEE IT FROM HERE... THE SIRIUS STAR THAT YOU WANT TO SEE THE MOST.
WAIT.
DEAR, SHOW ME QUICKLY

HOW IS IT? CAN YOU SEE IT?



ARE YOU ALRIGHT MOM!?
SEIICHI ...
HOW BEAU-TIFUL!
MOM!!
SO, SEIICHI, LOOK FOR IT AND FIND IT TOO.
MOM WILL GO TO WHERE THAT STAR IS.
WHICH REPRESENTS SIRIUS...
THE PICTURE OF A LARGE DOG, SITTING,
SO TAEKO-SAN DREW THIS AND LEFT IT.
IN SHORT, FUKUTARO-SAN DIDN'T ABANDON TAEKO-SAN AND SELL THIS PLACE!

IN ORDER TO REALIZE THE WISH OF HIS DYING WIFE...
AFTER TAEKO-SAN WAS TAKEN TO A HOSPITAL, FUKUTARO-SAN STAYED HERE AND CONTINUED FINISHING THE DEVELOPMENT OF THIS TELESCOPE...
THE PLACE WAS NOT SOLD TO HONOR TAEKO-SAN'S REQUEST!!
BUT THERE'S SOMEONE WHO DIDN'T KNOW THIS!!
SHE'S WITH THE STAR SIRIUS.
ANIKI! WHERE IS MOM?
HERE!
REALLY!? WHERE'S THAT?

IN ORDER TO FIND HIS BIRTH MOTHER,
THEN THE KID RESEARCHES SIRIUS.
AND THE BRIGHTEST STAR IN THE SKY, SIRIUS, SHINES.
IN THE WINTER NIGHT SKY, THE CONSTELLATION SHAPED LIKE A LARGE SITTING DOG,
NO ONE WAS AS EVIL AS HIM
YOUR MOM WAS MURDERED BY YOUR FATHER,
HE LISTENED TO GOSSIP FROM IRRESPONSIBLE PEOPLE AROUND HIM...
WHEN THE KID GREW UP,
MURDERED MOM!?
DAD...?
THAT PERSON WHO WANTS CONTROL OF THE OBSERVATORY THAT WAS BUILT WITH THE SOUL OF HIS OWN LITTLE SISTER,
MAY TELL LIES TO A CHILD FOR REVENGE...

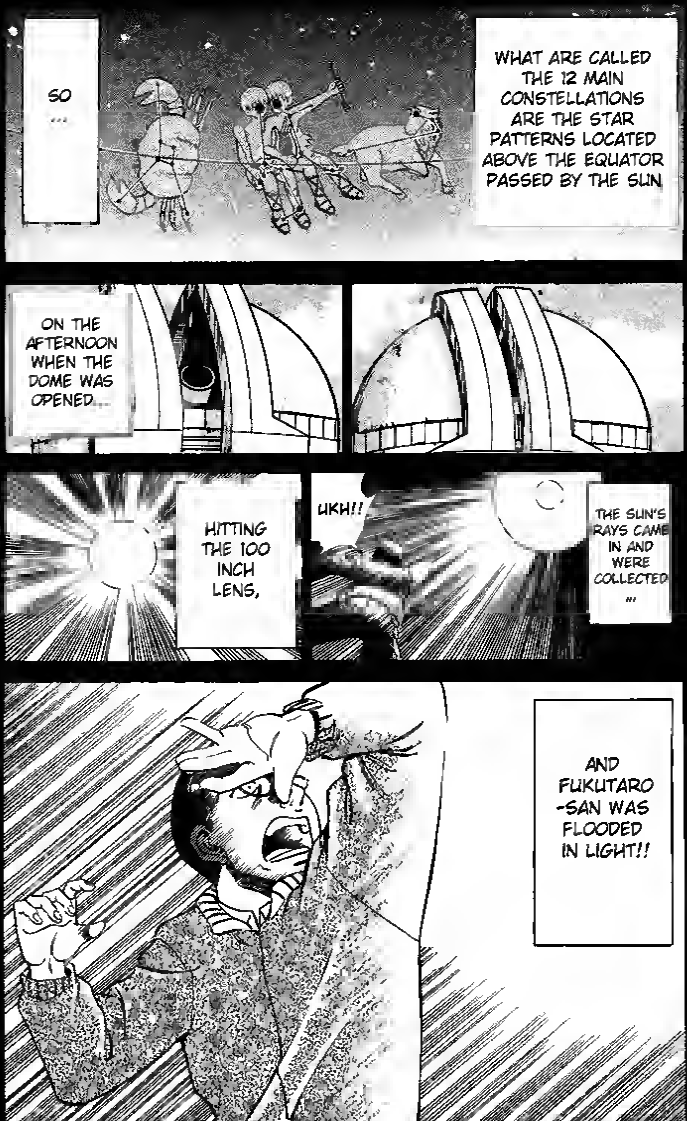
AND THE TRAGEDY HAPPENED.
BUT THE PERSON THAT CAN CLEAR UP THAT MISUNDERSTANDING HAD LEFT HOME...
THAT'S RIGHT!! SIRIUS!!
!!
WHY DID THE CULPRIT LEAVE THE SCORCHED CORPSE...
HELP! HELP ME!!
IS 'SCORCHER!!*
THE BRIGHTEST STAR IN THE NIGHT SKY.
YES. SIRIUS.
THE ORIGIN OF THIS NAME...

* DERIVED FROM THE GREEK 'SEIRIOS'

AH!!
WHAT HAP-PENED!?
DAD!!
JUST WAIT!! I'LL HELP YOU!!
TAP
TAP
I WAS LOOKING INSIDE BUT I CAN'T REACH THE ROPE I USED!
KREK
HELP ME, DAD!!
WHY MUST IT BE BROKEN AT A TIME LIKE THIS!?
DAMMIT! WHY CAN'T IT BE OPENED!?
!?

ARE YOU OKAY?
DON'T BE AFRAID! I'LL HELP YOU!!
NOW! CLIMB UP THAT ROPE!
TO AVOID BEING SCRATCHED BY THE MIRROR...
SLOWLY!
DON'T RUSH YOUR WAY CLIMBING UP!
HOW IS IT!? ARE YOU UP YET...

AND MEET MOM AT SIRIUS!
GO AWAY...
HEY! WHAT ARE YOU DOING!?
GEMINI IS INCLUDED IN THE 12 MAIN CONSTE-LLATIONS (ZODIAC)*
AT THAT TIME, THE TELESCOPE WAS POINTING TOWARD GEMINI.
!!
* HTTP://EN.WIKIPEDIA.ORG/WIKI/ZODIAC


SO ...
WHAT ARE CALLED THE 12 MAIN CONSTELLATIONS ARE THE STAR PATTERNS LOCATED ABOVE THE EQUATOR PASSED BY THE SUN
ON THE AFTERNOON WHEN THE DOME WAS OPENED...
HITTING THE 100 INCH LENS,
UKH!!
THE SUN'S RAYS CAME IN AND WERE COLLECTED ...
AND FUKUTARO -SAN WAS FLOODED IN LIGHT!!

THEN SIRIUS WAS SYMBOLIZED AS THE DESTRUCTION THAT BEFELL HIS MOTHER.
THIS METHOD CAN KILL CHILDREN AND ADULTS.
BUT YESTERDAY HE HEARD A STORY THAT HE REALLY DIDN'T EXPECT...
SO IT'S REALLY MOM!?
I THOUGHT ANIKI WAS THE ONE WHO DREW IT,
EH!?
MOTHER DREW THAT PICTURE
WHY DID SHE DRAW SIRIUS!?
EVEN THOUGH MOM HATED DAD AS THE ONE WHO BUILT THIS OBSERVATORY THAT DROVE HER TO COMMIT SUICIDE...

I WAS TRICKED OUTRIGHT!
THAT MAN KNEW...
WHAT IS IT THAT MOM REALLY WANTED THAT SHE CAME ALL THE WAY HERE AND DIED?
THAT'S RIGHT ... IF ONLY WE WERE MORE CAREFUL OTHER'S LIVES WOULD BE SAVED.
SEIICHI-SAN SAID AT DINNER, THAT THE MURDER HAPPENED DUE TO A MISUNDERSTANDING.
THEN THE SECOND MURDER OCCURRED
END OF...
DEMONSTRATION.

ガタ
PLEASE ANIKI,
THAT HORRIBLE MAN IS STILL UP THERE, ISN'T HE?

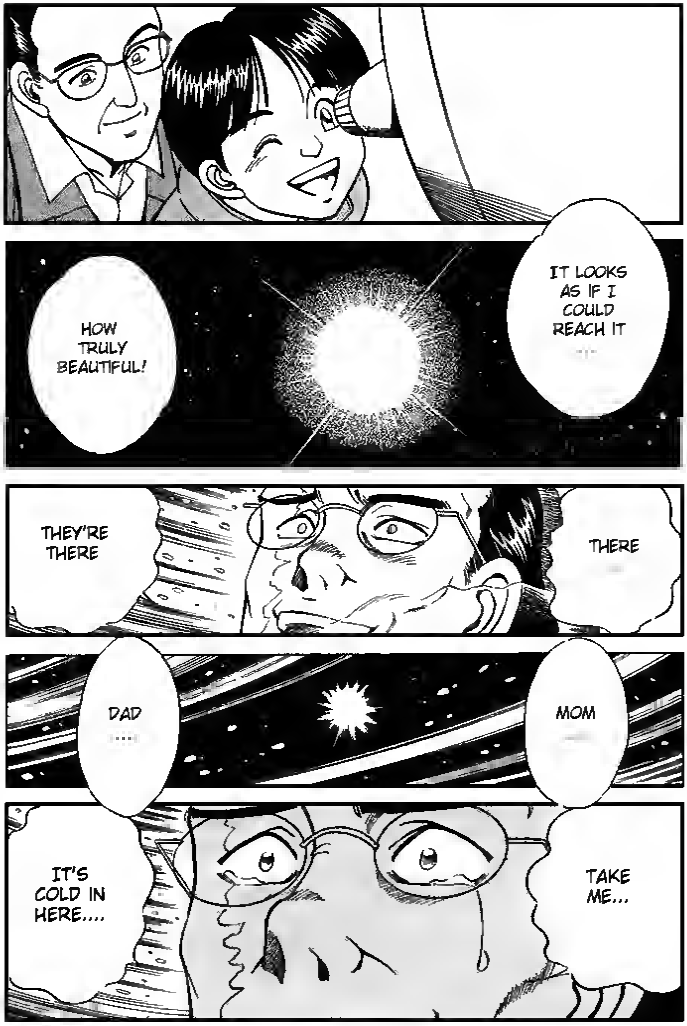
IS IN THE GENERATOR ROOM.
THE CULPRIT
SEEMS IT'D BE BETTER IF WE TAKE HIM TOMORROW MORNING.
THE WEATHER IS STILL BAD.
WE CAN'T.
CAN HE BE ARRESTED IMME-DIATELY?

IN THAT CASE, YOU SHOULD STAND GUARD HERE!
DON'T WORRY! WE BROUGHT RATIONS.
SO WE CAN'T GO DOWN YET?
WHAT DO YOU THINK?
AS MUKAI-SAN SAID BEFORE, ACTUALLY FUKUTARO-SAN COULD SURVIVE...

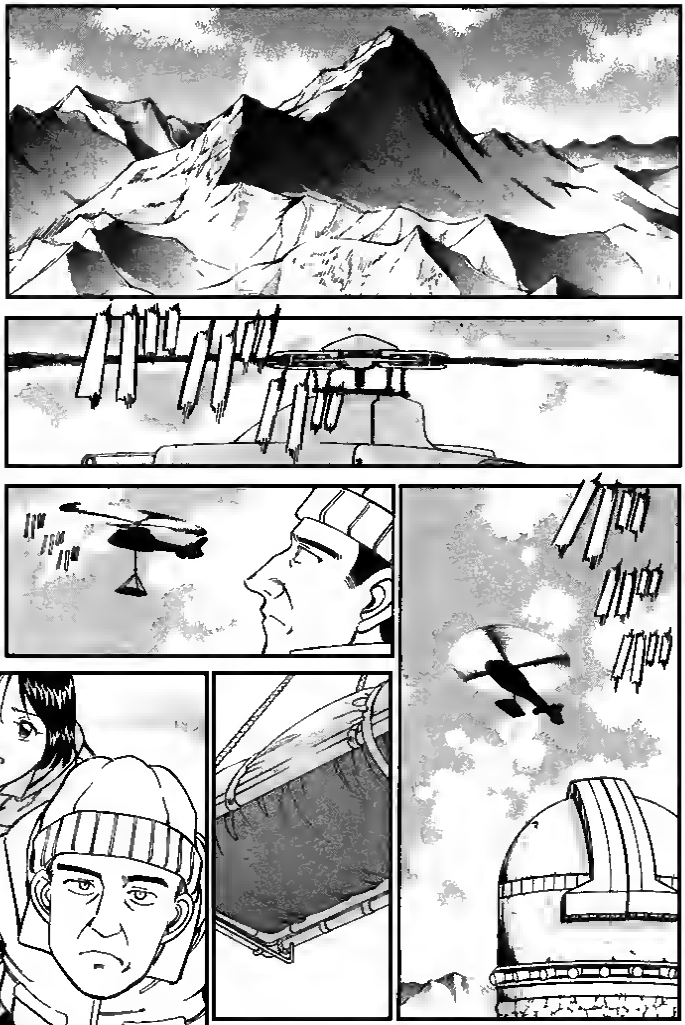
SO YOU KNOW A LOT.
.....
IF HE HAD EVADES THE SPOT WHERE THE LIGHT FELL...
HE WON'T BE BURNT ALIVE.
?
I UNDER-STAND
BECAUSE I ALREADY HAVE A FAMILY.
THE SACRIFICE WAS TOO BIG!!
EVEN THOUGH HIS DREAM TO OBTAIN THE OBSERVATORY IS REALIZED...
AND THE OTHER PERSON...
ME LEAVING THE HOUSE
MOM'S DEATH...

DAD WAS TRAPPED WITHIN HIS OWN DREAM
IN THE END HE REALIZED IT ON HIS OWN
THAT IT WAS THE TIME FOR ABSOLUTION
HEY
DINNER IS...
HEY!!! HURRY UP AND COME HERE!!
SEIJI SAID,
IF ONLY HE HEARD THIS STORY EARLIER

WHY MUST THIS HAPPEN!?
THE STARS IN WINTER ARE SO BEAUTIFUL, BUT WHY IS IT THIS COLD...?
THE DOME WAS LEFT OPEN..
AND THE CHILLY WIND IS QUICKLY RUSHING IN..
I DON'T WANT TO..
ARE YOU CALLING ME, DAD...?


IT LOOKS AS IF I COULD REACH IT
HOW TRULY BEAUTIFUL!
THEY'RE THERE
THERE
DAD
MOM
IT'S COLD IN HERE....
TAKE ME...

WE'RE GOING TOGETHER!!

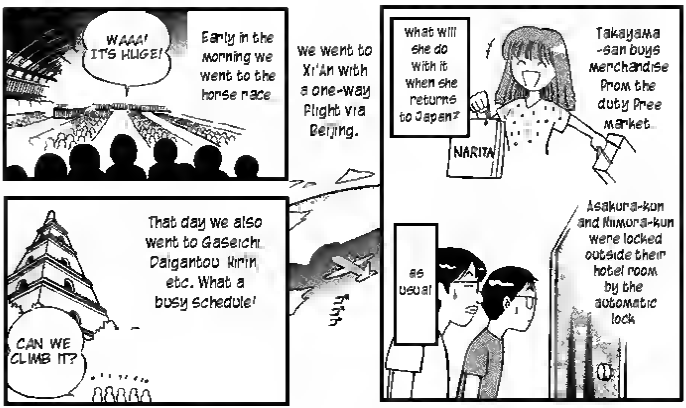


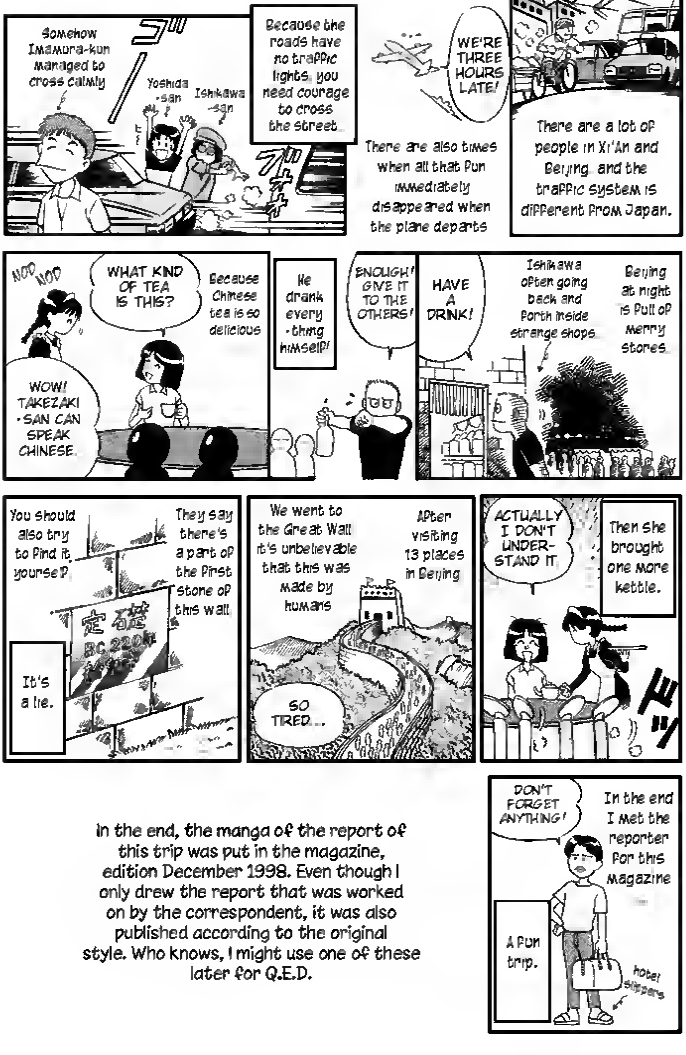
NOW I'M ON MY OWN...
THAT'S RIGHT
WHAT ARE YOU DOING?
COME ON! COME ON!
SORRY, SORRY
HURRY UP, EVERYONE ELSE IS READY!
COME DOWN QUICKLY! EVERYONE IS WORRIED ABOUT YOU!!

●ブレイク・スルー…マガジンGREAT 1999年1月号掲載
●褪せた星図…マガジンGREAT 1999年3月号掲載

TRIP REPORT TO CHINA

"What's the relation between this manga and China?" I will explain. This story happened at the start of the summer of 1998, at the same time that the third Q.E.D. story, "Lost Royale" was published in Magazine Great. At that time the media was hyped with the talk about the great movie with historical background by Chen Kaige titled "Shikou Ansatsu". In the finishing stages, a public correspondent from this monthly boy's magazine was chosen to observe the film's setting, located in Xi'An and Beijing, and to write a report to be published later. In order to make the trip report in manga form, the mangaka chosen to work on it was Motohiro Katou. The probable reason for this was to broaden the horizon and feelings evoked from the process of unveiling this eternal history and to use that to make another mystery manga.


WAAA! IT'S HUGE!
Early in the morning we went to the horse race
We went to Xi'An with a one-way flight via Beijing.
What will she do with it when she returns to Japan?
NARITA
Takayama -san buys merchandise from the duty free market
That day we also went to Gaseichi, Daigantou, Rinin, etc. What a busy schedule!
CAN WE CLIMB IT?
as usual
Asakura-kun and Kimura-kun were locked outside their hotel room by the automatic lock


Somehow Imamura-kun managed to cross calmly
Yoshida -san
Ishikawa -san
Because the roads have no traffic lights, you need courage to cross the street.
WE'RE THREE HOURS LATE!
There are also times when all that Pun immediately disappeared when the plane departs
There are a lot of people in Xi'An and Beijing and the traffic system is different from Japan.
NOD NOD
WHAT KIND OF TEA IS THIS?
Because Chinese tea is so delicious
WOW! TAKEZAKI -SAN CAN SPEAK CHINESE.
He drank every -thing himself!
ENOUGH! GIVE IT TO THE OTHERS!
HAVE A DRINK!
Ishikawa often going back and forth inside strange shops.
Beijing at night is full of merry stores.
You should also try to find it yourself.
They say there's a part of the first stone of this wall.
It's a lie.
We went to the Great Wall it's unbelievable that this was made by humans
SO TIRED...
After visiting 13 places in Beijing
ACTUALLY I DON'T UNDER-STAND IT
Then she brought one more kettle.
DON'T FORGET ANYTHING!
In the end I met the reporter for this magazine
A Pun trip.
hotel slippers

in the end, the manga of the report of this trip was put in the magazine, edition December 1998. Even though I only drew the report that was worked on by the correspondent, it was also published according to the original style. Who knows, I might use one of these later for Q.E.D.

あなたは、この本を読んで、どのような感想をおもちになりましたか。

このほかに、「講談社コミックス」の中で、どんな本を読まれましたか。

このつぎには、どんな作家の、どんなまんがを読みたいとお考えですか。

コミックス編集の参考にさせていただきたいと思います。「読後の感想」と合わせて、左記のところあてにお知らせください。

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「Q.E.D.」係

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Q.E.D. 証明終了③

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知性への挑戦状!!

Q.E.D.

証明終了

加藤元浩

その謎を解け!!

第1〜8巻
絶賛発売中!!

月刊少年マガジン増刊
マガジンGREAT(偶数月20日発売)にて
大好評連載中!!

Notes for Your Brain's Pleasure

@OKeanWave

1) What is a CCD chip exactly?

- A CCD is short for Charged Coupled Device, a device used to create images of objects, store information or transfer electrical charges. When it receives an input light from an object or electrical charge, it converts it into an output of electronic signal to be processed by other equipment to produce an image.
- Basically, it operates under the same principle as Einstein's photo-electric effect (Einstein is most famous for the theories of Relativity, but this is what won him Nobel Prize for Physics in 1921)
- Its significance led to the inventors, Willard Boyle and George E. Smith, being awarded the National Academy of Engineering Charles Stark Draper Prize in January 2006, and the Nobel Prize for Physics in 2009.
- Its ability to produce high quality image data is used in many fields such as architecture, colour cameras, and astrophotography. In fact, its quantum efficiency (measurement of the device's electrical sensitivity to light) can go over 90% at some wavelengths, whereas for film it's just less than 10%.

http://www.jyi.org/volumes/volume3/issue1/features/peterson.html
http://astronomyonline.org/Astrophotography/CCD.asp
http://en.wikipedia.org/wiki/Charge-coupled_device
http://www.webcitation.org/5bLXMl1V0
http://nobelprize.org/nobel_prizes/physics/laureates/2009/
http://www.nae.edu/Awards/DraperPrize/PastWinners/page20068949.aspx
http://en.wikipedia.org/wiki/Quantum_efficiency

2) What are the rules for Shichi-Narabe?

- Divide the cards equally between players.
- Players who own the seven cards place them until all of them are placed on the table.
- Your goal is to play all the cards in your hand.
- Taking turns, each player can lay a card on the table if it is in sequence with an already-played card of the same suit. (ascend or descend, aces adjacent to kings)
- Player can pass up to 3 times if they can't play a card or just want to do so, passing 4 times means you lose though.
- Joker can be played, it acts as a substitute for any card that the player doesn't own and must be followed up with an adjacent card. Other players having a card substituted by the joker must also play them immediately.

http://kayisgames.com/archives/2009/04/shichi_narabe.php [Rules of the Game]
http://mogera.jp/gameplay?gid=gm0000000168
[Flash game of Shichi-Narabe, untranslated Japanese]

Notes for Your Brain's Pleasure

@UnconWave

3) Tycho Brahe

http://galileo.rice.edu/sci/brahe.html
http://www.nada.kth.se/~fred/tycho/index.html
http://en.wikipedia.org/wiki/Tycho_Brahe

4) Kepler's Laws

- The orbit of every planet is an ellipse with the sun at a focus.
- A line joining a planet and the sun sweeps out equal areas during equal intervals of time.
- The square of the orbital period of a planet is directly proportional to the cube of the semi-major axis of its orbit.

http://en.wikipedia.org/wiki/Kepler%27s_law
http://en.wikipedia.org/wiki/Johannes_Kepler

5) Edwin Hubble

http://en.wikipedia.org/wiki/Edwin_Hubble
http://astroprofspage.com/archives/450
http://www.makara.us/04mdr/01writing/03tg/bios/Hubble.htm

6) Hubble's Law

- Observation in physical cosmology that the velocity at which various galaxies are receding from the Earth is proportional to their distance from us.
- Considered the first observational basis for the expanding space paradigm and today serves as one of the pieces of evidence most often cited in support of the Big Bang model.

http://en.wikipedia.org/wiki/Hubble%27s_law#cite_note-Coles-0

7) The Big Bang Theory. The term Big Bang generally refers to the idea that the Universe has expanded from a primordial hot and dense initial condition at some finite time in the past (best available measurements in 2009 suggest around 13.3 to 13.9 billion years ago), and continues to expand to this day.

http://en.wikipedia.org/wiki/Big_Bang

8) Hubble's Space Telescope. A space telescope carried into orbit by the space shuttle in April 1990, it is one of the largest and most versatile, and is well-known as both a vital research tool and a public relations boon for astronomy.

http://en.wikipedia.org/wiki/Hubble_Space_Telescope
http://hubblesite.org/
http://heritage.stsci.edu/index.html

9) Subaru Telescope

- 8.2 metre flagship telescope of the National Astronomical Observatory of Japan, located at the Mauna Kea Observatory on Hawaii.
- It is named after the open star cluster known in English as the Pleiades.
- It has the largest single monolithic primary mirror in the world.

Continued

Notes for Your Brain's Pleasure

@OceanWave

...Subaru Telescope

http://web-japan.org/kidsweb/hitech/subaru/index.html
http://en.wikipedia.org/wiki/Subaru_Telescope
http://www.naoj.org/

10) Assumption of death from absence / Estate Practice "Seven year rule"

http://duhaime.org/LegalResources/ElderLawWillsTrustsEstates/LawArticle-276/Default.aspx
http://www.e-laws.gov.on.ca/html/statutes/english/elaws_statutes_02d14_e.htm

11) Sirius

- At a distance of 8.6 light years, Sirius is also one of the nearest stars to earth, thus coupled with its intrinsic luminosity, makes it the brightest star in the night sky.
- Sirius is also known colloquially as the "Dog Star", reflecting its prominence in its constellation, Canis Major (English: Big Dog).

Yes, it inspired J.K. Rowling for the Harry Potter character Sirius Black.

http://en.wikipedia.org/wiki/Sirius
http://www.knowledgerush.com/kr/encyclopedia/Sirius/

12) Zeta Gemini

- A star in the constellation Gemini, It has the traditional name Mekbuda, which means "the lion's folded paw".
- It is a Cepheus variable star and is located approximately 1200 light years from Earth.

http://en.wikipedia.org/wiki/Zeta_Gemini
http://www.ifa.hawaii.edu/users/mickey/ASTR110L_S04/zetagem.html

13) Variable stars

http://en.wikipedia.org/wiki/Variable_star

14) Cepheus Variable Stars

- A Cepheus is a member of a class of pulsating variable stars with particularly precise relationship between its luminosity and pulsation period.
- Cepheus variables have been used in a variety of ways, including placing cosmological constraints on the expansion of the Universe through the determination of distances to galaxies.
- It is used as standard candles – a star with known luminosity to which other stars luminosity (and accordingly their direction to earth) is compared.

http://earthguide.ucsd.edu/virtualmuseum/ita/06_3.shtml
http://en.wikipedia.org/wiki/Cepheus
(http://en.wikipedia.org/wiki/Cepheid_variable)
http://en.wikipedia.org/wiki/Standard_candle

Arranged by: Saturn Beaver
Edited by: Yasuru89
Typed by: Lynossa

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TEXT: LYNOSSA
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PF: RITSU
CLEANER: DNS.07, GOBI, TSUNADE666
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